

WEST Search History

DATE: Tuesday, March 06, 2007

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
	<i>DB=PGPB,USPT,EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L40	L39 and antisense	0
<input type="checkbox"/>	L39	L38 and l37	4
<input type="checkbox"/>	L38	l35.ab. or l35.clm.	16
<input type="checkbox"/>	L37	L36 not @ay>2001	87
<input type="checkbox"/>	L36	L35 and (cancer\$ or tumor\$ or neoplas\$)	207
<input type="checkbox"/>	L35	ESP-2 or HED-2 or Zyxin or Zyxin-2	220
<input type="checkbox"/>	L34	L33 not @ay>2001	4
<input type="checkbox"/>	L33	L3 and L21	79
<input type="checkbox"/>	L32	L31 and L26	4
<input type="checkbox"/>	L31	L30 and L24	802
<input type="checkbox"/>	L30	stabil\$	1165863
<input type="checkbox"/>	L29	L19 and L24	23
<input type="checkbox"/>	L28	L26 and L21	4
<input type="checkbox"/>	L27	L26 abd k21	0
<input type="checkbox"/>	L26	L16.ab.	333
<input type="checkbox"/>	L25	s L17.ab.	1
<input type="checkbox"/>	L24	L21 and L16	919
<input type="checkbox"/>	L23	L21 and L19	23
<input type="checkbox"/>	L22	L21 and L20	25
<input type="checkbox"/>	L21	ewing\$ NEAR2 sarcoma	2520
<input type="checkbox"/>	L20	zyxin	203
<input type="checkbox"/>	L19	cofilin	261
<input type="checkbox"/>	L18	L17 and L14	5
<input type="checkbox"/>	L17	actin	30701
<input type="checkbox"/>	L16	actin	30701
<input type="checkbox"/>	L15	L14 and L13	3
<input type="checkbox"/>	L14	(auclair or amsellem or hervy or subra).in.	397
<input type="checkbox"/>	L13	L12 or L11 or L10	25539
<input type="checkbox"/>	L12	(435/7.23)! [CCLS]	3836
<input type="checkbox"/>	L11	(424/93.21)! [CCLS]	2119
<input type="checkbox"/>	L10	(514/12 514/44 514/9)! [CCLS]	20573

▢	L9	L8 AND L3	1
▢	L8	20040191230.pn.	1
▢	L7	L5 not @ay>2001	4
▢	L6	L5 not @py>2001	0
▢	L5	L4 and sarcoma	111
▢	L4	L3 and ewing\$	111
▢	L3	jasplakinolide	276
▢	L2	L1 and ewing\$	1
▢	L1	dolastatin 11	13

END OF SEARCH HISTORY

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.33	78.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-10.92

STN INTERNATIONAL LOGOFF AT 10:25:55 ON 06 MAR 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS	4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS	5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	6	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	7	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS	8	JAN 30	Saved answer limit increased
NEWS	9	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS	10	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	12	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	13	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS	14	FEB 28	TOXCENTER reloaded with enhancements
NEWS	15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	16	MAR 01	INSPEC reloaded and enhanced
NEWS	17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS	18	MAR 08	X.25 communication option no longer available after June 2006
NEWS	19	MAR 22	EMBASE is now updated on a daily basis
NEWS	20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS	21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS	22	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS	23	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS	24	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS	25	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS EXPRESS	FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

Enter NEWS followed by the item number or name to see news on that specific topic.

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of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006

=> file reg	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:41:55 ON 17 APR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1
DICTIONARY FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> E "DOLASTATIN"/CN 25

E1	1	DOLASETRON MESYLATE/CN
E2	1	DOLASTANE/CN
E3	0 -->	DOLASTATIN/CN
E4	1	DOLASTATIN 1/CN
E5	1	DOLASTATIN 10/CN
E6	1	DOLASTATIN 11/CN
E7	1	DOLASTATIN 12/CN
E8	1	DOLASTATIN 13/CN
E9	1	DOLASTATIN 13,
4-(3-AMINO-3,4-DIHYDRO-2-OXO-A-(PHENYLMETHYL)-1(2H)-PYRIDINEACETIC ACID)-/CN		
E10	1	DOLASTATIN 13,
4-(3-AMINO-3,4-DIHYDRO-6-HYDROXY-2-OXO-A-(PHENYLMETHYL)-1(2H)-PYRIDINEACETIC ACID)-/CN		
E11	1	DOLASTATIN 14/CN
E12	1	DOLASTATIN 15/CN

E13 1 DOLASTATIN 16/CN
 E14 1 DOLASTATIN 17/CN
 E15 1 DOLASTATIN 17 (DOLABELLA AURICULARIA)/CN
 E16 1 DOLASTATIN 18/CN
 E17 1 DOLASTATIN 19/CN
 E18 1 DOLASTATIN 2/CN
 E19 1 DOLASTATIN 3/CN
 E20 1 DOLASTATIN 4/CN
 E21 1 DOLASTATIN 5/CN
 E22 1 DOLASTATIN 6/CN
 E23 1 DOLASTATIN 7/CN
 E24 1 DOLASTATIN 8/CN
 E25 1 DOLASTATIN 9/CN

=> S E6

L1 1 "DOLASTATIN 11"/CN

=> DIS L1 1 SQIDE

THE ESTIMATED COST FOR THIS REQUEST IS 6.36 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 111517-68-1 REGISTRY
 CN Cyclo[L-alanyl-(2S,3R)-3-amino-2-methylpentanoyl-(2S,3S)-2-hydroxy-3-methylpentanoylglycyl-N-methyl-L-leucylglycyl-N-methyl-L-valyl-N,O-dimethyl-L-tyrosyl-(4S)-4-amino-2,2-dimethyl-3-oxopentanoyl] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Oxa-4,7,10,13,16,19,24,27-octaazacyclotriacontane, cyclic peptide deriv.
 CN Dolastatin 11

OTHER NAMES:

CN NSC 606195

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 8

NTE modified (modifications unspecified)

type	location	description
bridge	Gly-1 - Oaa-8	covalent bridge
uncommon	Oaa-6	-
uncommon	Oaa-8	-

SEQ 1 GLGVYXAX

MF C50 H80 N8 O12

SR CA

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, NAPRALERT, TOXCENTER, USPATFULL

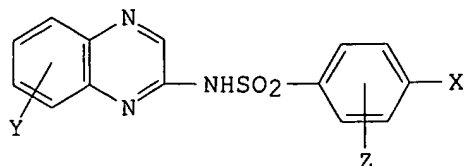
(*File contains numerically searchable property data)

DT.CA Caplus document type: Dissertation; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

22 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
22 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> DIS L1 1 SQIDE

THE ESTIMATED COST FOR THIS REQUEST IS 6.36 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:N
REQUEST CANCELED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.00	12.21

FILE 'CAPLUS' ENTERED AT 14:42:50 ON 17 APR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 17 Apr 2006 VOL 144 ISS 17
FILE LAST UPDATED: 16 Apr 2006 (20060416/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s actin

49670 ACTIN
30327 ACTINS
L2 52669 ACTIN
(ACTIN OR ACTINS)

=> s cofilin

775 COFILIN
232 COFILINS
L3 812 COFILIN
(COFILIN OR COFILINS)

=> s antag? or inhibit?

281605 ANTAG?
1822219 INHIBIT?
L4 1968300 ANTAG? OR INHIBIT?

=> s l4 (l) l3

L5 222 L4 (L) L3

=> s ewing?

L6 1659 EWING?

=> s 16 and 15
L7 1 L6 AND L5

=> d ibib

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:977858 CAPLUS
DOCUMENT NUMBER: 138:52333
TITLE: Pharmaceutical composition for diagnosis, prevention
or treatment of a tumorous state, comprising a
modulator of the actin polymerization state
INVENTOR(S): Auclair, Christian; Amsellem, Valerie; Hervy, Martial;
Subra, Frederic
PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De
Cachan; Institut Gustave Roussy-IGR; Centre National
de la Recherche Scientifique CNRS
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218
PRIORITY APPLN. INFO.:			FR 2001-7976	A 20010618
			WO 2002-FR2106	W 20020618

=> s 11
L8 22 L1

=> s 18 and 16
L9 0 L8 AND L6

=> s zyxin
219 ZYXIN
28 ZYXINS
L10 224 ZYXIN
(ZYXIN OR ZYXINS)

=> s 110 and 16
L11 3 L10 AND L6

=> d ibib 1-3

L11 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:184733 CAPLUS
DOCUMENT NUMBER: 142:371546
TITLE: The actin cytoskeleton-associated protein
zyxin acts as a tumor suppressor in
Ewing tumor cells
AUTHOR(S): Amsellem, Valerie; Kryszke, Marie-Helene; Hervy,
Martial; Subra, Frederic; Athman, Rafika; Leh, Herve;
Brachet-Ducos, Corinne; Auclair, Christian
CORPORATE SOURCE: CNRS UMR 8113, Laboratoire de Biotechnologie et
Pharmacologie genetique appliquee, Ecole Normale
Superieure de Cachan, Cachan, 94230, Fr.
SOURCE: Experimental Cell Research (2005), 304(2), 443-456
CODEN: ECREAL; ISSN: 0014-4827
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:583223 CAPLUS
DOCUMENT NUMBER: 141:188806
TITLE: Molecular mechanisms of CD99-induced
caspase-independent cell death and cell-cell adhesion
in Ewing's sarcoma cells: actin and
zyxin as key intracellular mediators
AUTHOR(S): Cerisano, Vanessa; Aalto, Yan; Perdichizzi, Stefania;
Bernard, Ghislaine; Manara, Maria Cristina; Benini,
Stefania; Cenacchi, Giovanna; Preda, Paola; Lattanzi,
Giovanna; Nagy, Balint; Knuutila, Sakari; Colombo,
Mario Paolo; Bernard, Alain; Picci, Piero; Scotlandi,
Katia
CORPORATE SOURCE: Laboratorio di Ricerca Oncologica, Istituti Ortopedici
Rizzoli, Bologna, 40136, Italy
SOURCE: Oncogene (2004), 23(33), 5664-5674
CODEN: ONCNES; ISSN: 0950-9232
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:977858 CAPLUS
DOCUMENT NUMBER: 138:52333
TITLE: Pharmaceutical composition for diagnosis, prevention
or treatment of a tumorous state, comprising a
modulator of the actin polymerization state
INVENTOR(S): Auclair, Christian; Amsellem, Valerie; Hervy, Martial;
Subra, Frederic
PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De
Cachan; Institut Gustave Roussy-IGR; Centre National
de la Recherche Scientifique CNRS
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218
PRIORITY APPLN. INFO.:			FR 2001-7976	A 20010618
			WO 2002-FR2106	W 20020618

=> d his

(FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006)

FILE 'REGISTRY' ENTERED AT 14:41:55 ON 17 APR 2006

E "DOLASTATIN"/CN 25

L1 1 S E6

FILE 'CAPLUS' ENTERED AT 14:42:50 ON 17 APR 2006

L2 52669 S ACTIN
L3 812 S COFILIN
L4 1968300 S ANTAG? OR INHIBIT?
L5 222 S L4 (L) L3
L6 1659 S EWING?
L7 1 S L6 AND L5
L8 22 S L1
L9 0 S L8 AND L6
L10 224 S ZYXIN
L11 3 S L10 AND L6

=> s 13 and 16

L12 6 L3 AND L6

=> s 112 and 14

L13 4 L12 AND L4

=> d ibib 1-4

L13 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:248644 CAPLUS

DOCUMENT NUMBER: 142:274057

TITLE: Sequences of human schizophrenia related genes and use for diagnosis, prognosis and therapy

INVENTOR(S): Liew, Choong-chin

PATENT ASSIGNEE(S): Chondrogene Limited, Can.

SOURCE: U.S. Pat. Appl. Publ., 156 pp., Cont.-in-part of U.S. Ser. No. 802,875.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 47
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241727	A1	20041202	US 2004-812731	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009
US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004241727	A1	20041202	US 2004-812731	20040330
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
			US 2000-477148	B1 20000104
			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2004-812731	A 20040330

L13 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:248643 CAPLUS
DOCUMENT NUMBER: 142:274056
TITLE: Sequences of human schizophrenia related genes and use
for diagnosis, prognosis and therapy
INVENTOR(S): Liew, Choong-Chin
PATENT ASSIGNEE(S): Chondrogene Limited, Can.
SOURCE: U.S. Pat. Appl. Publ., 156 pp., Cont.-in-part of U.S.
Ser. No. 802,875.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 47
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241727	A1	20041202	US 2004-812731	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009
US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004241727	A1	20041202	US 2004-812731	20040330
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
			US 2000-477148	B1 20000104
			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2004-812731	A 20040330

L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:60754 CAPLUS
Correction of: 2004:1036571
DOCUMENT NUMBER: 142:233342
Correction of: 142:16836
TITLE: Sequences of human schizophrenia related genes and use
for diagnosis, prognosis and therapy
INVENTOR(S): Liew, Choong-Chin
PATENT ASSIGNEE(S): Chondrogene Limited, Can.
SOURCE: U.S. Pat. Appl. Publ., 156 pp., Cont.-in-part of U.S.
Ser. No. 802,875.
CODEN: USXXCO

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 29
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241727	A1	20041202	US 2004-812731	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009
US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004265869	A1	20041230	US 2004-812716	20040330
US 2005208519	A1	20050922	US 2004-989191	20041115
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
			US 2000-477148	B1 20000104
			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2004-812731	A2 20040330
			WO 2004-US20836	A2 20040621

L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:977858 CAPLUS

DOCUMENT NUMBER: 138:52333

TITLE: Pharmaceutical composition for diagnosis, prevention or treatment of a tumorous state, comprising a modulator of the actin polymerization state

INVENTOR(S): Auclair, Christian; Amsellem, Valerie; Hervy, Martial; Subra, Frederic

PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De Cachan; Institut Gustave Roussy-IGR; Centre National de la Recherche Scientifique CNRS

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218

PRIORITY APPLN. INFO.:

FR 2001-7976
WO 2002-FR2106

A 20010618
W 20020618

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(FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006)

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E "DOLASTATIN"/CN 25

L1 1 S E6

FILE 'CAPLUS' ENTERED AT 14:42:50 ON 17 APR 2006

L2 52669 S ACTIN
L3 812 S COFILIN
L4 1968300 S ANTAG? OR INHIBIT?
L5 222 S L4 (L) L3
L6 1659 S EWING?
L7 1 S L6 AND L5
L8 22 S L1
L9 0 S L8 AND L6
L10 224 S ZYXIN
L11 3 S L10 AND L6
L12 6 S L3 AND L6
L13 4 S L12 AND L4

=> s phosphoinositol?

L14 989 PHOSPHOINOSITOL?

=> s l14 and l6

L15 0 L14 AND L6

=> s phosphotidylinositol

96 PHOSPHOTIDYLINOSITOL
2 PHOSPHOTIDYLINOSITOLS
L16 98 PHOSPHOTIDYLINOSITOL
(PHOSPHOTIDYLINOSITOL OR PHOSPHOTIDYLINOSITOLS)

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L17 0 L15 AND L6

=> file pctfull

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
29.78	41.99

FULL ESTIMATED COST

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FILE LAST UPDATED: 11 APR 2006 <20060411/UP>
MOST RECENT UPDATE WEEK: 200614 <200614/EW>
FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.

SEE

<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE
(last updated April 10, 2006) <<<

=> s cofilin

179 COFILIN
12 COFILINS

L18 188 COFILIN
(COFILIN OR COFILINS)

=> s ewing?

L19 3185 EWING?

=>

=> s 119 and 118

L20 19 L19 AND L18

=> s antag? or inhibit?

53720 ANTAG?

189862 INHIBIT?

L21 198141 ANTAG? OR INHIBIT?

=> s 120 and 121

L22 19 L20 AND L21

=> s 122 not py>2001

488865 PY>2001

L23 4 L22 NOT PY>2001

=> d ibib 1-4

L23 ANSWER 1 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2001055168 PCTFULL ED 20020827
TITLE (ENGLISH): NUCLEIC ACIDS, PROTEINS AND ANTIBODIES
TITLE (FRENCH): ACIDES NUCLEIQUES, PROTEINES, ET ANTICORPS
INVENTOR(S): ROSEN, Craig, A.;
BARASH, Steven, C.;
RUBEN, Steven, M.

PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
ROSEN, Craig, A.;
BARASH, Steven, C.;
RUBEN, Steven, M.

DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 2001055168	A1	20010802
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DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
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TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF
CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:

PRIORITY INFO.:

WO 2001-US1331	A	20010117
US 2000-60/179,065		20000131
US 2000-60/180,628		20000204
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US 2000-60/189,874		20000316
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US 2000-60/236,327	20000929
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US 2000-60/237,038	20001002
US 2000-60/237,040	20001002
US 2000-60/237,037	20001002
US 2000-60/236,802	20001002
US 2000-60/239,937	20001013
US 2000-60/239,935	20001013

US 2000-60/241,221	20001020
US 2000-60/241,808	20001020
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US 2000-60/240,960	20001020
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US 2000-60/256,719	20001205
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US 2000-60/251,988	20001205
US 2000-60/251,479	20001206
US 2000-60/251,869	20001208
US 2000-60/251,856	20001208
US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L23 ANSWER 2 OF 4

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PCTFULL COPYRIGHT 2006 Univentio on STN

1999051766 PCTFULL ED 20020515

METHODS FOR PRODUCING LIBRARIES OF EXPRESSIBLE GENE SEQUENCES

METHODES DE PRODUCTION DE BANQUES DE SEQUENCES DE GENES EXPRIMABLES

FERNANDEZ, Joseph, Manuel;

PATENT ASSIGNEE(S):	HEYMAN, John, Alastair; HOEFFLER, James, Paul; MARKS-HULL, Heather, Lynn; SINDICI, Michelle, Lynn INVITROGEN; FERNANDEZ, Joseph, Manuel; HEYMAN, John, Alastair; HOEFFLER, James, Paul; MARKS-HULL, Heather, Lynn; SINDICI, Michelle, Lynn									
LANGUAGE OF PUBL.:	English									
DOCUMENT TYPE:	Patent									
PATENT INFORMATION:										
	<table border="0"> <tr> <th>NUMBER</th> <th>KIND</th> <th>DATE</th> </tr> <tr> <td colspan="3">-----</td> </tr> <tr> <td>WO 9951766</td> <td>A1</td> <td>19991014</td> </tr> </table>	NUMBER	KIND	DATE	-----			WO 9951766	A1	19991014
NUMBER	KIND	DATE								

WO 9951766	A1	19991014								
DESIGNATED STATES										
W:	AU CA JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE									
APPLICATION INFO.:	WO 1999-US7270 A 19990402									
PRIORITY INFO.:	US 1998-09/054,936 19980403									
L23 ANSWER 3 OF 4	PCTFULL COPYRIGHT 2006 Univentio on STN									
ACCESSION NUMBER:	1999051620 PCTFULL ED 20020515									
TITLE (ENGLISH):	LIBRARIES OF EXPRESSIBLE GENE SEQUENCES									
TITLE (FRENCH):	BANQUES DE SEQUENCES DE GENES POUVANT ETRE EXPRIMEES									
INVENTOR(S):	FERNANDEZ, Joseph, Manuel; HEYMAN, John, Alastair; HOEFFLER, James, Paul									
PATENT ASSIGNEE(S):	INVITROGEN									
LANGUAGE OF PUBL.:	English									
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PATENT INFORMATION:										
	<table border="0"> <tr> <th>NUMBER</th> <th>KIND</th> <th>DATE</th> </tr> <tr> <td colspan="3">-----</td> </tr> <tr> <td>WO 9951620</td> <td>A1</td> <td>19991014</td> </tr> </table>	NUMBER	KIND	DATE	-----			WO 9951620	A1	19991014
NUMBER	KIND	DATE								

WO 9951620	A1	19991014								
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APPLICATION INFO.:	WO 1999-US7334 A 19990402									
PRIORITY INFO.:	US 1998-60/080,626 19980403 US 1998-60/096,981 19980818									
L23 ANSWER 4 OF 4	PCTFULL COPYRIGHT 2006 Univentio on STN									
ACCESSION NUMBER:	1998041648 PCTFULL ED 20020514									
TITLE (ENGLISH):	TARGET GENES FOR ALLELE-SPECIFIC DRUGS									
TITLE (FRENCH):	GENES CIBLES POUR MEDICAMENTS SPECIFIQUES D'ALLELES									
INVENTOR(S):	HOUSMAN, David; LEDLEY, Fred, D.; STANTON, Vincent, P., Jr.									
PATENT ASSIGNEE(S):	VARIAGENICS, INC.; HOUSMAN, David; LEDLEY, Fred, D.; STANTON, Vincent, P., Jr.									
LANGUAGE OF PUBL.:	English									
DOCUMENT TYPE:	Patent									
PATENT INFORMATION:										
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NUMBER	KIND	DATE								

WO 9841648	A2	19980924								
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	DK ES FI FR GB GR IE IT LU MC NL PT SE
APPLICATION INFO.:	WO 1998-US5419 A 19980319
PRIORITY INFO.:	US 1997-60/041,057 19970320

=> d kwic 2

L23 ANSWER 2 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . U3 52.36 60
 snoRNP associated 55 kDa
 protein
 GI H-DO0096 Transthyretin (prealbumin) 16.28 20
 C4 H-DO0408 Cytochrome P450: IIIA7 (P450- 55.44 64
 HFLa)
 M302 E7 H-DO0682 cofilin 18.37 30
 M383 G2 H-DO0726 ferrochelatase 46.64 50.OkDa
 M383 C3 H-DO0760 proteasome, subunit HO 25.85 34.OkDa
 M305 B4 H-DO0761 proteasome, subunit HC5 26.62. . .
 .
 enoyl-Coenzyme A hydratase, 32.01 58
 short chain, mitochondrial
 E1 H-DI4446 Human HFREP- I mRNA for 34.43 40
 unknown protein, complete cds
 167-14 H-DI4497 H.sapiens (Ewing's sarcoma cell 51.44 64
 line) mRNA encoding open
 reading frame
 M266 D2 H-DI4520 basic transcription element- 24.2 33.OkDa
 binding protein 2
 M318 D2 H-DI4658 hypothetical. . .
 .
 42.79 48
 M298 C2 H-JO2611 apolipoprotein D 20.9 3 I.OkDa
 M266 C4 H-JO2683 ADP/ATP carrier protein 32.89 36
 M383 H2 H-JO2685 plasminogen activator inhibitor, 45.76
 50.OkDa
 placenta
 167-3 H-JO2853 casein kinase 11, alpha chain 43.08 50
 E3 H-JO2854 Human 20-kDa myosin light 19.03 31
 chain (MLC-2) mRNA, complete
 cds
 M248. . .
 .
 transaldolase 37.18 39.OkDa
 M423 C4 H-LI9593 Interleukin 8 receptor, beta 39.71 4 1.0kDa
 G I H-LI9686 Homo sapiens macrophage 12.76 1 3
 migration inhibitory factor (MIF)
 gene, complete cds
 G2 H-LI9739 metalloproteinase 1 9.35 32
 M302 E3 H-LI9871 activating transcription factor 3 20.02 36.OkDa
 167-86 H-L20422 14 3 protein eta 34 1 3
 M440 B2 H-L20492 Human gamma-glutamyl 24.86 35.OkDa
 transpeptidase mRNA, complete
 cds
 M315 BI H-L20688 GDP-dissociation inhibitor 22.22 32
 protein rhoA
 M271 H3 H-L20941 ferritin, heavy polypeptide. 20.24 32
 FERRITIN IS AN
 INTRACELLULAR,
 MOLECULE THAT STORES
 IRON IN A SOLUBLE,
 NONTOXIC, READILY
 AVAILABLE FORM.

transforming protein rhoC,
Aplysia ras-related homolog 9
M236 E3 H-L25085 Sec61 complex, beta subunit, 10.67 19
PROTEIN TRANSLOCATION
TN THE ENDOPLASMIC
RETICULUM
167-85 H-1,25610 cyclin-dependent kinase inhibitor 32
B2 H-L25610 cyclin-dependent kinase inhibitor 18.110 40
1
M297 H2 H-1,26232 cathepsin A/phospholipid transfer 54.34 64.0kDa
protein
167-4 H-1,26318 stress-activated protein kinase 52 42.31
JNKI
M428 F1 H-1,27586 Human TR4 orphan. . . .
. . .
E2 H-MI9713 tropomyosin, alpha, muscle 31.35 41.0kDa
167-79 H-MI9722 proto-oncogene tyrosine-protein 64 58.26
kinase FGR
M248 HI H-M20560 Annexin III (lipocortin III), 35.64 37
INHIBITOR OF
PHOSPHOLIPASE A2
M235 HI H-M20681 GLUCOSE TRANSPORTER 54.67 50
TYPE 3, BRAIN
167-29 H-M21616 beta platelet-derived growth 121 121.7
factor receptor precursor
M305 A3 H-M21812. . . .
. . .
palmitoylated membrane protein, 51.37 5 I.0kDa
erythrocyte, 55 kDa
M302 C7 H-M65292 complement factor H-related 36.41 50
protein (GB:M65292)
D3 H-M68516 Human protein C inhibitor gene, 44.77 54
complete cds
167-27 H-M68520 cell division protein kinase 2 38 32.85
M236 D5 H-M68867 Cellular retinoic acid-binding 15.29 19.0kDa
protein 2, . . .
. . .
A1 H-PO 197 S-adenosylmethionine synthetase 42.46
2 (metX)
M365 BI H-PO203 hypothetical protein 10.12
M365 CI H-PO209 hypothetical protein 49.61
M365 DI H-PO213 glucose inhibited division protein 68.42
(gidA)
M381 E1 H-PO218 hypothetical protein 20.24
M365 E1 H-PO221 nifLJ-like protein 35.97
M365 F1 H-PO227 outer membrane protein (omp5). . . C2 P]3 -]]
ribosomal protein SI (rps 1)
M366 D2 H-PO403 phenylalanyl-tRNA synthetase, 36.19
alpha subunit (pheS)
M366 E2 H-PO404 protein kinase C inhibitor 11.55
(SP:PI6436)
M366 F2 H-PO405 nifS-like protein 48.51
M366 G2 H-PO406 hypothetical protein 21.67
M366 H2 H-PO407 biotin sulfoxide reductase (bisC) 87.67
M381 DI H-PO409. . . .
. . .
alanine racemase, biosynthetic 41.58
(a
M371 D6 H-PO942 D-alanine glycine perinease 49.61
(dagA)
M371 E6 H-PO943 D-amino acid dehydrogenase 45.21
(dadA)
M371 F6 H-PO944 translation initiation inhibitor, 13.86
putative
M371 G6 H-PO946 conserved hypothetical integral 54.67

membrane protein
 M371 H6 H-PO947 hypothetical protein 13.31
 M371 A7 H-PO949 conserved hypothetical secreted 16.61
 protein
 M371 B7. . .
 .
 factor Ile, 48.360
 alpha subunit
 M302 D7 H-S69022 myosin, light polypeptide 2, 18.26 3 1
 ventricular
 H5 H-S69272 cytoplasmic antiproteinase=38 41.47 50
 kda intracellular serine proteinase
 inhibitor [human, placenta,
 mRNA, 1465 nt]
 DI H-S72043 GIF=growth inhibitory factor 7.59 19
 [human, brain, Genornic, 2015 nt]
 M266 B3 H-S74221 cytokine lK factor 17.93 36.OkDa
 DI H-S74445 cellular retinoic acid-binding 15.18 23
 protein. . . small nuclear ribonucleoprotein, 13.97 17.OkDa
 Sm D3
 M311 D4 H-UI6660 enoyl-Coenzyme A hydratase-like 36.19 38
 protein, peroxisomal
 M302 H4 H-UI7074 cyclin-dependent kinase 6 18.59 29
 inhibitor p 1 8
 M306 A2 H-UI7195 A-kinase anchor protein I 00 72.05 100
 [AKAPI00*]
 DI -UI7280 Steroidogenic acute regulatory 31.46 35
 protein
 M316 171 H-UI8291. . .
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 29.15 38.OkDa
 factor TAF1132 mRNA, complete
 cds
 M424 H3 H-U22662 Human nuclear orphan receptor 49.28 49.OkDa
 LXR-alpha mRNA, complete cds
 M271 D2 H-U24074 killer cell inhibitory receptor 37.62 43
 [KIR], Homo sapiens natural
 killer-associated transcript 3
 (NKAT3), complete cds.
 .
 30
 gamma
 M416 D3 H-U26403 Human receptor tyrosine kinase 25.19 30.OkDa
 ligand LERK-7 precursor
 (EPLG7) mRNA, complete cds
 M317 E2 H-U27143 human protein kinase C inhibitor- 13.900
 17.OkDa
 I cDNA
 E5 H-U28249 Human II kd protein mRNA, 12.32 12
 complete cds
 F4 H-U28386 Human nuclear localization 58.3 54
 sequence receptor hSRP. . . phosphatase 2A, 56.65 55.OkDa
 regulatory subunit B' alpha- I
 E1 H-U37529 Human substance P beta-PPT-A 14.3 22
 mRNA, complete cds
 M305 H5 H-U37547 apoptosis inhibitor 68.09 64
 M424 D5 H-U38480 Human retinoid X receptor- 51.04 61.OkDa
 gamma mRNA, complete cds
 M270 F4 H-U38810 Human mab-21 cell fate-
 determining protein. . . mRNA
 M298 E4 H-U39945 human adenylate kinase 2 (adk2) 26.3633 38.OkDa
 mRNA
 166-38 H-U40282 human integrin-finked kinase 55 49.68
 (ILK) mRNA
 169-65 H-U40343 human CDK inhibitor p I 9INK4d 1 8 18. 33

mRNA
 E2 H-U40705 Homo sapiens telomeric repeat 48.4 52
 binding factor (TRF I) mRNA,
 complete cds
 166-50 H-U40989. . . E2 H-U47677 Human transcription factor E2F 1
 48.18 53.0kDa
 (E2FI) gene, promoter and
 m421 H I H-U48707 Human protein phosphatase- 1 18.92 36.0kDa
 inhibitor mRNA, complete cds
 M302 B7 H-U49070 peptidyl-prolyl isomerase PIN I 18.04 28.0kDa
 C1 H-U49188 Human placenta (Diff33) mRNA, 54.45 70
 complete cds
 M485 H2. . .
 .
 46.97 60.0kDa
 phosphodiesterase (PDE4Q
 mRNA, 4C-426 isoform,
 complete cds
 M306 F3 H-U66867 ubiquitin-conjugating enzyme E21 17.49 28
 [UBE2I]
 M416 E2 H-U681 11 Human protein phosphatase 22.66 37.0kDa
 inhibitor 2 (PPP I R2) gene
 F2 H-U68382 Mannosidase, alpha B, lysosomal 35.64 36
 G2 H-U69141 Glutaryl-Coenzyme A 48.29 56
 dehydrogenase
 B2 H-U70660 Human copper. . . (HAHI) mRNA, complete
 cds
 M297 B2 H-U71374 peroxisomal membrane protein 40.15 40.0kDa
 (Pex13p)
 M306 A3 H-U75272 progastricsin [PGC] 42.79 49.0kDa
 A2 H-U75285 Homo sapiens apoptosis inhibitor 15.73 25
 survivin gene, complete cds
 B2 H-U77456 Human nucleosome assembly 41.36 50
 protein 2 mRNA, complete cds
 C2 H-U78294 Homo sapiens 15S-lipoxygenase 74.47. . . and VIIIA)
 M302 B3 H-X02751 proto-oncogene N-ras 20.9 25.0kDa
 D3 H-X02812 Human mRNA for transforming 43.12 50
 growth factor-beta (TGF-beta)
 M302 CI H-X03124 tissue inhibitor of 22.88 T6.0kDa
 metalloproteinase I
 M362 BI H-X03342 ribosomal protein L32 14.96 24.0kDa
 M235 A2 H-X03484 human mRNA for raf oncogene 71.350 73.0kDa
 M318. . .
 .
 basic protein, 23 kDa 22.44 30.0kDa
 M318 GI H-X57025 insulin-like growth factor 1 16.94 1 8
 M305 F5 H-X57348 protein kinase C inhibitor 27.39 35.0kDa
 M236 D6 H-X57351 interferon-induced protein 1-813.14.63 24.
 H3 H-X57352 interferon-induced protein 1-8U 14.74 38
 M305 B6 H-X58079 S- I 00. . . 49
 E2 H-X59357 Epstein-Barr virus small RNA- 14.19 36
 associated protein
 M236 D4 H-X59417 macropain, iota subunit, THE 27.17 36
 INTERACTION OF CALPONIN
 WITH ACTIN INHIBITS
 ACTOMYOSIN MG-ATPASE
 ACTIVITY
 M271 H4 H-X59618 ribonucleotide reductase, small 42.9 46
 subunit
 M250 G3 H-X59710 CAAT-box DNA-binding protein, 22.66 34
 subunit B, CCAAT-BINDING
 TRANSCRIPTION FACTOR
 SUBUNIT A [Homo. . .
 .
 H+ transporting, 42.13 58.0kDa

subunit C, vacuolar
 M236 C3 H-X69392 ribosomal protein L26 16.06 29
 B3 H-X69532 H.sapiens gene for inter-alpha- 100.32 98
 trypsin inhibitor heavy chain HI,
 exons 1-3
 M236 F5 H-X69654 ribosomal protein S26 12.76 18
 M421 C8 H-X70218 Protein phosphatase 4 (formerly 33.88
 X), catalytic subunit
 M266. . .

 M235 BI H-X72841 Human retinoblastoma-binding 46.86 52.OkDa
 protein (RbAp46) mRNA,
 complete cds, IEF 7442
 (GB:X72841)
 217-25 H-X73428 DNA-binding protein inhibitor 20 17.08
 ID-3
 M305 B5 H-X73459 signal recognition particle, 15.07 20
 subunit 14
 M250 D6 H-X73460 ribosomal protein L3, isoform 2, 44.44 50.OkDa
 COMPONENT OF. . .

 H-YO0291 Human hap mRNA encoding a 49.39 59.OkDa
 DNA-binding hormone receptor
 M386 HI H-YO0345 polyadenylate-binding protein 69.74 70.OkDa
 M469 A2 H-YO0630 Plasminogen activator inhibitor, 45.76
 46.OkDa
 type II (arginine-serpin)
 M305 E1 H-YO0711 lactate dehydrogenase B 36.85 38.OkDa
 H2 H-YO0764 ubiquinol/cytochrome c reductase 10.12 33
 hinge protein
 F5 H-YO7848 H.sapiens. . .

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L23 ANSWER 4 OF 4 PCTFULL COPYRIGHT 2006 Univention on STN
 ABEN . . .
 loss of one of these alleles in cancer cells due to loss of
 heterozygosity (LOH) and (2) the
 development of inhibitors with high specificity for the single
 remaining alternative allele of the
 essential gene retained by the tumor cell after LOH.. . .
 ABFR . . . perte de l'un de ces alleles dans des cellules cancéreuses, due a
 la perte
 d'hétérozygotie (LOH); et (2) développer des inhibiteurs
 présentant une spécificité élevée pour
 l'allele distinct restant du gene essentiel retenu par la cellule
 tumorale apres LOH. Des categories. . .

 DETD Specifically, this invention is concerned with target genes for drugs
 that are useful
 for treating such diseases by providing allele-specific
 inhibition of essential cell
 functions.

 . . .
 strategy for the development of anticancer agents having a high
 therapeutic
 232/116
 index is described in Housman, International Application PCT/US/94 08473
 and
 Housman, INHIBITORS OF ALTERNATIVE ALLELES OF GENES
 ENCODING PROTEINS VITAL FOR CELL VIABILITY OR CELL GROWTH
 AS A BASIS FOR CANCER THERAPEUTIC AGENTS, U.S.. . . which undergo
 loss of
 heterozygosity in a cancer. Treatment of a cancer in an individual who

is heterozygous with an allele specific inhibitor targeted to the single allele of an essential gene which is present in a cancer will inhibit the growth of the cancer cells. In contrast, the alternative allele present in non-cancerous cells (which have not undergone loss of heterozygosity). . .

(3) identification of the absence of one of these alleles in cancer cells due to LOH and (4) development of specific inhibitors of the single remaining allele of the essential gene retained by the cancer cell, but not the alternative allele.

SUMMARY OF THE INVENTION

The utilization of inhibitors of alternative alleles, such as in the strategy described in Housman, supra, requires the provision of suitable target genes in order to identify such inhibitors and to implement corresponding diagnostic or therapeutic methods. Thus, as described below, the present invention identifies useful groups of genes which provide. . .

In each disease, the administration of such an inhibitor would have cytotoxic or antiproliferative effects on the abnormally proliferating cells that exhibited LOH and contained only the sensitive allele of the. . .

In addition, it was found that specific inhibitors of alternative alleles of an essential gene would be useful in managing transplantation in instances where the alleles in a donor bone marrow differ from the alleles in the recipient. For example, administration of an inhibitor of an allele that was present in a donor bone marrow but not the recipient could be used to treat graft-versus-host. . .

Alternatively, an inhibitor of an allele that is present in the recipient but not the donor bone marrow could be used to enhance engraftment by preferentially creating space in the recipient bone marrow for the graft without inhibiting proliferation of the engrafted donor marrow.

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The term target gene refers to a gene where the gene, its RNA transcript, or its protein product are specifically inhibited or potentially inhibited by a drug. In references herein to genes or alleles, the term encoding refers to the entire gene sequence, including both coding. . .

of alternative variances at a single variant site, or a combination of several different variances at different sites. In this invention, inhibitors targeted to a specific allelic form or subset of the allelic forms of a gene can be targeted to

a specific variance. . . .

dysplastic epithelium of lung, breast, cervix, or other tissues. Drugs used in treating cancer and other non-cancer proliferative disorders commonly aim to inhibit the proliferation of cells and are commonly referred to as antiproliferative agents.

particular sequence variance. Also preferably, these terms refer to loss of heterozygosity of a particular sequence variance that is recognized by an inhibitor that will inhibit one allele of the gene present in normal cells of the individual, but not an alternative allele.

the individual clones. The alleles subject to LOH may vary from one clone to another. Therefore treatment of these conditions preferably utilizes

inhibitors of at least two allelic forms. Thus, methods relating to such disorders can utilize alternative alleles of one gene and/or allelic. . . .

of LOH in certain locations, for example segments of chromosomes 7,8,10,11,13,16, and 18 in prostate cancer, administration of an allele-specific drug that inhibits one allele that is within such a region, in a patient who is heterozygous for alternative forms of the gene, would. . . .

genes, and provides, as examples, specific genes within those categories which are found to be suitable as targets for allele specific inhibitors, in particular for killing cancer cells or reducing the proliferation of cells in cancer or noncancer proliferative disorders. Thus, the present invention. . . . more variant positions, indicates that the gene is a useful potential target gene in this invention for the identification of allele specific inhibitors and in other aspects of the invention.

those skilled in the art) identifying the gene and providing a known sequence) which can be used for identifying allele specific inhibitors and for use in other aspects of this invention. Preferably the gene has the LOH frequency and at least one sequence variance. . . .

vital for cell viability or growth, or essential for cell survival and proliferation have the same meaning. A gene is essential if

inhibition of the function of such a gene or gene product will kill the cell or inhibit its growth as determined by methods known in the art. Growth inhibition can be monitored as a reduction or preferably a cessation of cell proliferation.

the affected gene, genetic disruption of the gene by homologous recombination or other methods in organisms ranging from yeast to mice,

inhibition of the gene
by antisense oligonucleotides or ribozymes, and identification of the
target of
known cytotoxic, drugs and other inhibitors. As further
discussed below, the
essentiality of a gene can depend on the conditions to which the cell is
exposed.

entity is absent or present at low levels, the
gene product is essential. In another example, the administration of a
drug that
inhibits one or more functions within the cell can cause other
functions to be
essential that are not essential in the absence. . .

Identification of one or more sequence variances in
that gene and/or in the corresponding gene products allows screening or
design of
such inhibitors for potential treatment.

sequence variance, and therefore of individuals heterozygous for such
variances, indicates that the gene can be used for the identification of
inhibitors
targeting allelic forms of the gene which have a particular variance or
variances
and in the other aspects of this invention.

gene is a potential target. The
target gene, its RNA transcript or protein product can then be used as
targets for
allele-specific inhibitors for treating the proliferative
disorder or other uses as
described in the aspects of this invention.

of the
population are heterozygous for that gene provides genes which are
particularly
likely to be useful target genes for allele specific inhibition
in this invention.

or 50% of cases of such a disorder
indicates that the gene is useful as a potential target for identifying
allele specific
inhibitors for the treatment of proliferative disorders and in
other aspects of this
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invention.

more preferably at least 30%, and most
preferably at least 40% are heterozygous in a specific population that
may be
treated with inhibitors to treat cancer or other proliferative
disorder in that
population. Once a specific variance is identified in a certain gene,
the. . .

In the context of this invention, an alternative allele, or other
reference to an
appropriate target for the inhibitors of this invention refers
to a form of a gene
which differs in base sequence from at least one other allele or. . .
no
phenotypic effect on the physical condition of an individual having that
variance
until the variance is targeted by an allele specific inhibitor

In connection with allele specific inhibitors and the methods of this invention, the terms allelic form or alternative form of the target gene or sequence variance within the . . . either or both of the gene or a product of that gene including the RNA transcript or protein product. Thus, a particular

inhibitor may act in an allele specific manner (which will often be variance specific) at any of those levels and preferably the inhibitor is targeted to a particular sequence variance of the specific allelic form.

the classes described above in genes that are essential for cell survival or proliferation that can be the targets for allele-specific inhibitors for the treatment of cancer or noncancer proliferative disorders.

This invention provides inhibitors which are specific for at least one, but not all, allelic forms of a gene that encodes a gene product essential to cell growth or cell viability, for genes belonging to the specified categories of genes. The inhibitor may be active on the gene or gene product including the RNA transcript, protein product, or modifications thereof. Exposure to the inhibitor inhibits proliferation or kills cells which have undergone LOH of genes that are not inhibited by the drug and contain only an allelic form of the essential gene, its RNA transcript, or its protein product against which the inhibitor is targeted. Normal cells which contain two alternative alleles of the target genes, one of which is not inhibited by the specific inhibitor, are spared from the toxic effects of the inhibitor because the remaining activity of the allele which is not inhibited by the inhibitor is adequate to permit continued cell viability and growth. This differential effect of the

inhibitor on cells with LOH of a targeted gene (e.g., a cancer cell) and normal cells accounts for the high therapeutic index of the inhibitors of this invention for the treatment of cancer or non-cancerous, proliferative disorders characterized by LOH. Toxicity of the inhibitor to normal cells is therefore low, compared to most currently available anticancer and antiproliferative agents.

indicated above and described in the Detailed Description of the Preferred Embodiments, in a first aspect the invention provides methods for identifying inhibitors potentially useful for treatment of a proliferative disorder, e.g., cancer. Such inhibitors are active on

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specific allelic forms of target genes as identified herein. The method involves determining at least two allelic forms of such a gene encoding an

essential gene product, and testing a potential allele specific inhibitor to determine whether the potential inhibitor is active on, e.g., inhibits expression of, at least one of the allelic forms, but not all of those forms. If the potential inhibitor inhibits only a subset of the allelic forms of the particular essential gene, then it is an allele specific inhibitor. Preferably the difference in activity of the inhibitor for different allelic forms is between allelic forms which have a sequence variance at a particular site.

In many, or even most, cases an allele specific inhibitor discriminates between two allelic forms due to a particular single sequence variance between the allelic forms of the target gene. For example, . . . not affect the cleavage. In the Detailed Description of the Invention specific examples of proteins, small molecules, and oligonucleotides providing allele specific inhibition based on single sequence variances are described. Thus, in preferred embodiments an allele specific inhibitor discriminates between two allelic forms by discriminating a single sequence variance. As previously indicated, inhibitors can be targeted to either the nucleic acid or a polypeptide (where a nucleotide change results in an amino acid change).

In particular embodiments, the allele specific inhibitor will recognize more than one linked sequence variances within a specific allele.

An allele specific inhibitor or variance specific inhibitor is a drug or inhibitor that inhibits the activity of one alternative allele of a gene to a greater degree than at least one other alternative allele. The difference in activity is commonly determined by the dose or level of a drug required to achieve a quantitative degree of inhibition. A commonly used measure of activity is the IC₅₀ or concentration of the drug required to achieve a 50% reduction in the measured activity of the target gene. Preferably an allele specific inhibitor will have at least twice the activity on the target allelic form than on a non-target allelic form, more preferably at least . . . most preferably at least 100 times. This can also be expressed as the sensitivities of the different allelic forms to the inhibitor.

it is equivalent to state that the target allelic form is most preferably at least 100 times as sensitive to the inhibitor as a non-target allelic form. The activity of an inhibitor can be measured either in vitro or in vivo, in

assay systems that reconstitute the in vivo system, or in systems incorporating selected elements of the complete biological system. For use in inhibiting cells containing only the target allelic form rather than cells containing at least one non-targeted allelic form, the difference in activity. . .

In a related aspect, the invention provides inhibitors potentially useful for tumor, e.g. . cancer treatment, or treatment of other proliferative disorders. Such

inhibitors are active on a specific allele of a gene which has at least two different alleles encoding an essential gene product in one of the target gene categories above. Such inhibitors can, for example, be identified by the above screening methods.

In a related aspect, the invention provides methods for producing inhibitors active on such specific allelic forms of belonging to one of the above categories genes by 232/116

identifying a gene encoding an essential. . . product which has alternative allelic forms in a non-tumor cell and which undergoes LOH in a tumor cell, screening to identify an inhibitor which is active on at least one but less than all of the alleles of the gene, and synthesizing the inhibitor in an amount sufficient to produce a therapeutic effect when administered to a patient suffering from a tumor in which tumor cells have only the allele on which the inhibitor is active.

In the context of this invention, the term active on an allelic form or allele specific inhibitor or specific for an allelic form indicates that the relevant

inhibitor inhibits an allele having a particular sequence to a greater extent (preferably > 2x) than an allele having a sequence which differs in a particular manner. Thus, for alleles for which a particular base position is identified, the

inhibitor has a higher degree of inhibition when a certain base is in the specified position than when at least one different base is in that position. This. . . means that for substitution at a particular base position, at least two of the possible allelic forms differ in sensitivity to an inhibitor. Usually, however, for a specific sequence variance site, the site will be occupied by one of only two bases.

Further, if an inhibitor acts at the polypeptide level, and any of three bases may be present at a particular position in a coding sequence but only one of the substitutions results in an amino acid change, then the activity of the inhibitor

would be expected to be the same for the two forms producing the same amino acid sequence but different for the form. . .

The term less active indicates that the inhibitor will inhibit growth of or kill a cell containing only the allelic form of a gene on which the inhibitor is more active at concentrations at which it does not significantly inhibit the growth of or kill a cell containing only an allelic form on which the inhibitor is less active.

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The term drug or inhibitor refers to a compound or molecule which, when brought into contact with a gene, its RNA transcript, or its gene product which the compound inhibits, reduces the rate of a cellular process, reduces the level of a cellular constituent, or reduces the level of activity of. . . the term to those skilled in the art and not limiting. Thus, the term generally indicates that a compound has an inhibitory effect on a cell or process, as understood by those skilled in the art. Examples of inhibitory effects are a reduction in expression of a gene product, reduction in the rate of catalytic activity of an enzyme, and reduction. . . formation or the amount of an essential cellular component. The blocking or reduction need not be complete, in most

cases, for the inhibitor to have useful activity. Thus, in the present invention,

inhibitors are targeted to genes, their RNA transcript, or their protein product that are essential for cell viability or proliferation. Such inhibitors would have the effect of inhibiting essential functions, leading to loss of cell viability or inhibition of cell proliferation. In preferred embodiments, such inhibitors cause cell death or stop cell proliferation. In preferred embodiments of this invention, inhibitors specifically include a molecule or compound capable of inhibiting one or more, but not all, alleles of genes, their RNA transcript, or their protein product that are essential for cell survival or proliferation. The terms inhibitor of a gene or

inhibitor of an allele as used herein include inhibitors acting on the level of the gene, its gene product, its RNA transcript, its protein product, or modifications thereof and is explicitly not limited to those inhibitors or drugs that work on the gene sequence itself.

Several types of inhibitors are generally recognized in the art. A competitive

inhibitor is one that binds to the same site on the gene, its RNA transcript or gene product as a natural substrate. . . is required for the action of the gene or gene product, and competitively prevents the binding of that

substrate. An

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66 allosteric inhibitor is one that binds to a gene or gene product and alters the activity of the gene or gene product without preventing binding of a substrate or cofactor. Inhibition can also involve reducing the amount of the gene, RNA transcript, or its protein product, and thus the total amount of activity from the gene in the cell. Such inhibition can occur by action at any of a large number of different process points, including for example by inhibiting transcription or translation, or by inducing the elimination of the gene, its RNA transcript, or its protein product where elimination may involve. . . of the target or egress or export from the compartment in which it is active and the process of excretion or export. Inhibition can also be achieved by modifying the structure of the target, interfering with secondary modifications, or interfering with cofactors or other ancillary components which are required for its activity. Inhibitors can be comprised of small molecules or polymeric organic compounds including oligopeptides or oligonucleotides.

The term active on a gene or targeted to a gene indicates that an inhibitor exerts its inhibitory effect in a manner which is preferentially linked with the characteristic properties of a gene, its RNA transcript or its gene. . . RNA with other cellular constituents (RNA, protein, cofactors, substrates, etc.) required for activity. Thus, in general these terms indicate that the inhibitor acts on the gene, its RNA transcript, its protein product, its gene product, or modifications thereof, or on a reaction or reaction. . .

from one of the above categories has undergone loss of heterozygosity. The method involves administering a therapeutic amount of an allele specific inhibitor of such an essential gene to a patient whose normal somatic cells are heterozygous for that gene but whose tumor cells contain only a single allelic form of the gene. The inhibitor is active on the specific allele of the gene present in the tumor cells.

cancer. The method involves administering to a patient having a precancerous condition or an early stage cancer or cancers an allele specific

inhibitor targeted to an allele of an essential gene for which the normal somatic cells of the patient are heterozygous and which. . . the precancerous condition are not clonal from a single cell, the method involves subsequently administering to the patient a second allele specific inhibitor in an amount sufficient to inhibit and preferably kill cells with LOH in which an allele

not targeted by the first inhibitor is the only remaining allele of the gene. In most cases, the second allele specific inhibitor will target the alternative allele of the gene targeted by the first inhibitor. However, the second inhibitor can also target an allele of a second essential gene which has undergone LOH. The second gene may have undergone LOH in. . . affected the first gene due to their proximity on a chromosome, though this is not essential. Additionally, in other cases, allele specific inhibition of one of the alleles of each of 3, 4, or even 232/116 more target genes can be utilized in a serial. . . genes need not be tightly linked so that LOH of the various genes does not necessarily occur together. By using the serial inhibition of an allele of each of the target genes, it is possible to inhibit and preferably kill the full population of precancerous cells in which LOH has occurred. Thus, the net effect is essentially the same as if allele specific inhibitors of each of the two alternative alleles of one essential gene had been used.

In the context of the administration of multiple allele specific inhibitors, the terms serial or subsequently indicates that the administration of two or more inhibitors is sufficiently temporally separated so that normal somatic cells remain functional and are therefore able to survive and/or proliferate. Those skilled. . . that the required time will depend on various factors, such as clearance rate, type and extent of the effect of an inhibitor on normal cells, and additive cellular toxicity, and that appropriate timing can be routinely determined for particular selections of compounds.

In another related aspect, the invention provides a method for identifying a potential patient for treatment with an inhibitor active on a specific allele of an essential gene from one of the above categories. The method involves identifying a patient having. . . the neoplastic cells contain only a single allele of the gene, then the patient is a potential patient for treatment with the inhibitor.

With respect to identifying patients with precancerous or oligoclonal proliferative 232/116 diseases characterized by LOH, and selecting appropriate allele or variance-specific inhibitors for such patients, in some cases it may not be practical to obtain samples of all proliferative lesions for LOH assays. . . . aorta cannot routinely be sampled by biopsy, and dysplastic lesions in the cervix, colon, or bronchus can be multifocal. Therefore, allele specific inhibitors can be selected for such conditions based on previously established

patterns of LOH for the condition, and on specific testing for. . .

most preferably 100%. However, it is not necessary that 100% of lesions show LOH for a successful treatment by allele specific inhibitors because 2,3,4, or even more inhibitors can be used in a combined approach to target an ever higher fraction of lesions, and because substantial therapeutic benefit may be achieved by inhibiting the proliferation of less than 100% of lesions.

In another aspect, the invention provides a method for identifying a potential patient undergoing transplantation for treatment with an inhibitor active on a specific allele of an essential gene from one of the above categories. The method involves identifying a patient undergoing. . .

related aspect, the invention provides a method for treating graft versus host disease in allogeneic transplantation in which an allele specific inhibitor is used to inhibit proliferation of donor cells, e.g. . to inhibit stimulation of the donor immune system. In preferred embodiments, the allele specific inhibitor is selected by identifying alternative variances or allelic forms of an essential gene that are present in the donor tissues but not the recipient. Therapy with a variance or allele specific inhibitor or inhibitors that recognizes both alleles of the essential gene that are present in the donor, but not both alleles of the same. .

another aspect, the invention provides a method for enhancing engraftment of an allogeneic bone marrow transplant in which an allele specific inhibitor is used to kill or suppress the patient's own bone marrow, providing space for engraftment of the donor cells within the marrow cavity. In preferred embodiments, the allele specific inhibitor is selected by identifying alternative forms of an essential gene that are present in the recipient but not the donor marrow. Therapy with an allele specific (generally a variance specific) inhibitor that recognizes both forms of the essential gene that are present in the recipient, but not both forms of the same gene. . .

Allele specific inhibitors can be used to treat or prevent chimerism by selectively killing or suppressing proliferation of the patient's own cells without toxicity. . .

aspect, the invention provides a method for treating cancer in a patient receiving allogeneic or autologous transplantation in which an allele specific inhibitor is used to kill or inhibit the growth of cancer cells without toxicity to the transplanted marrow. In one embodiment, in an autologous, transplantation the

allele specific inhibitor is selected to recognize one alternative allele of an essential gene remaining in the cancer cell due to LOH in patients. . . . therapy of cancer without suppression of the transplanted marrow. In an alternative embodiment, in an allogenic transplantation, therapy with an allele specific inhibitor that recognizes the one form of the essential gene that is present in cancer cells due to LOH in the recipient, tissue for selective reimplantation. The present invention provides for an improved method for purging bone marrow of malignant cells using allele specific inhibitors of essential genes. The method involves identifying an essential gene with only one variant form remaining in the cancer cells due. . . . The patient's bone marrow is then cultivated ex vivo using methods known in the art in the presence of an allele specific inhibitor that inhibits the allele that is present in the cancer cells, but not the alternative allele that is present in the heterozygous normal bone. . . .

In another aspect, the invention provides a method for inhibiting growth of or killing a cell containing only one allelic form of a gene by contacting the cell with an inhibitor active on that allelic form. The gene has at least two sequence variants in a population, and belongs to one of the categories of essential genes described below. The inhibitor is less active on at least one other allelic form of the gene.

In preferred embodiments of the above aspects in which an allele specific inhibitor is used to inhibit a cell or to treat a patient, a plurality of different inhibitors may be used. Preferably different inhibitors target a plurality of different variances in a single target gene, or target variances in different target genes, or both. In particular embodiments a plurality of inhibitors is used simultaneously, in others there is serial administration using different inhibitors or different sets of inhibitors in separate administrations, which may be performed as a single set of administrations in which each set of inhibitors is administered once, or in multiple serial administrations in which each set of inhibitors is administered more than once. Such use of multiple inhibitors provides enhanced inhibition, which preferably includes killing, of the targeted cells. In addition, allele specific inhibitors as described can be used in conjunction with other treatments for diseases and conditions, including in conjunction with other chemotherapeutic agents such. . . .

In a related aspect, an allele specific inhibitor can be used in conjunction with a conventional antiproliferative or chemotherapeutic agent or therapy, such therapies including radiation, immunotherapy, or surgery. In. . .

with the above aspects, in a further aspect the invention provides a pharmaceutical composition which includes at least one allele specific inhibitor.

In preferred embodiments the composition includes at least one allele specific inhibitor and a pharmaceutically acceptable carrier. Such carriers are known in the art and some commonly used carriers are described in the Detailed Description below. Also in preferred embodiments the composition includes two, three, or more allele specific inhibitors, and may also include a pharmaceutically acceptable carrier. In other preferred embodiments, the composition includes at least one allele specific inhibitor and another antineoplastic agent, which need not be an allele specific inhibitor. The embodiments of this aspect may also optionally include diluents and /or other components as are commonly used in pharmaceutical compositions or formulations. In embodiments having a plurality of allele specific inhibitors, the inhibitors may target a plurality of different variances of a single target essential gene, or may target sequence variances of a plurality of. . .

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In accord with the use of pharmaceutical compositions, the present invention also provides a packaged pharmaceutical composition comprising an allele specific inhibitor as described above, bearing a Food and Drug Administration use indication for administration to a patient suffering from a cancer or.

Thus, similar to the above, the invention provides a method for identifying an

inhibitor potentially useful for treatment of cancer or other proliferative disorder.

The inhibitor is active on a conditionally essential gene, and the gene is subject to loss of heterozygosity in a cancer. The method. . . least two alleles of a said gene which differ at at least one sequence variance site and testing a potential allele specific inhibitor to determine whether the potential inhibitor is active on at least one but less than all of the identified alleles. If the potential

inhibitor inhibits expression of at least one but less than all of the alleles or reduces the level of activity of a product of at least one but less than all of the alleles, this indicates that the potential allele specific inhibitor is, in fact such an allele-specific

inhibitor inhibitor.

Similar to other types of target genes described above, the invention provides

inhibitors, methods for producing inhibitors, pharmaceutical compositions, methods for identifying potential patients, probes, and primers which target or recognize alleles of a conditionally essential gene or utilize inhibitors which target such genes.

also provides methods for preventing the development of cancer, methods for treating a patient suffering from a cancer, and methods for inhibiting growth of a cells as described above except that the targeted cells are subjected to an altered condition such that the gene. . .

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In still another aspect, not requiring the use of allele specific inhibitors, but still utilizing information about sequence variance or allelic differences between normal somatic cells and cancer cells in a patient, the invention. . .

above aspects, a conventional therapy acts on a protein or other molecular target in the same pathway as the allele specific inhibitor. As an example, the antineoplastic drug hydroxyurea, which inhibits ribonucleotide reductase (RR), can be used in conjunction with an allele specific inhibitor of RR subunit MI or M2 or another gene that encodes a product important in nucleotide synthesis. Similarly, the antiproliferative drug methotrexate inhibits the enzyme dihydrofolate reductase (DHFR), and can be used with allele specific inhibitors of DHFR that would result in a differential methotrexate effect on cancer tissues compared to normal proliferating tissues. Alternatively, methotrexate can be used with allele specific inhibitors of other genes important in folate metabolism to achieve an enhanced cancer cell specificity for methotrexate. Similarly, the anticancer drug 5-fluorouracil and related compounds can be administered together with an allele specific inhibitor of thymidylate synthase (TS) in a patient heterozygous for TS and with LOH at the TS gene in proliferating cells, e.g., cancer cells. Alternatively, an allele specific inhibitor of 5-FU degradation or metabolism can be administered with 5-FU. For example, the enzyme dihydropyrimidine dehydrogenase, which catalyzes the first and rate. . .

LOH in one or more tumors or other proliferative disorders. Genes having these characteristics can then be used for identifying allele specific inhibitors and evaluated for use in the other methods of this invention. Such procedures are routine, as is shown by the Detailed Description. . .

In preferred embodiments of the above methods and inhibitors involving particular target genes or classes or categories of genes, the inhibitor or potential inhibitor is a ribozyme which is designed to specifically cleave a particular target allelic form of a gene (i.e., a nucleotide sequence such. . .

Similarly, in preferred embodiments the inhibitor or potential inhibitor is an oligonucleotide, e.g, an antisense oligonucleotide, preferably at least partially an oligodeoxyribonucleotide. The antisense oligonucleotide is complementary to a sequence which includes. . .

Thus, derivatives of nucleic acid inhibitors include modified nucleic acid molecules which may contain one or more of: one or more nucleotide analogs, including modifications in the sugar. . .

Similarly, in preferred embodiments the inhibitor or potential inhibitor is an antibody, preferably a monoclonal antibody, which may be complexed or conjugated with one or more other components, or a fragment. . .

An inhibitor may also be an oligopeptide or oligopeptide derivative. Such peptides may be natural or synthetic amino acid sequences, and may have modifications. . .

In other embodiments, the inhibitor is a small molecule, for example, a molecule of one of the structural types used for conventional anticancer chemotherapy.

region undergoes LOH at frequencies similar to the marker. Such gene identification thus further identifies particular cancers which can potentially be treated with inhibitors targeting sequence variances in those essential genes.

LOH for other such disorders and cancers, and can further readily identify essential genes which are potential targets for variance specific inhibition and the treatment of the corresponding condition and in other aspects of this invention.

72 hours after transfection with antisense oligonucleotides. Anti-ras is an oligonucleotide known to have antiproliferative effects against T24 cells. This oligonucleotide exhibits inhibition comparable to the anti-RPA70 oligonucleotide.

is two graphs showing that the proliferation of two cell lines homozygous for different variant forms of the RPA70 gene is inhibited to a greater degree by matched oligonucleotides than by oligomers having a single base mismatch. Cell proliferation was measured by BrdU incorporation. . .

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Fig. 13 is a graph showing Inhibition of BrdU incorporation in A549 cells by antisense oligonucleotides against the RPA 70 gene. Cells were transfected, as described previously, with a. . .

Fig. 20 is a graph showing inhibition of mutant ras using antisense oligonucleotides specific for the mutant form, based on information available in Schwab et al., 1994, PNAS 91:10460. . .

and the variant sequences within these genes, have utility for the therapy of cancer and other disorders through the discovery of variance-specific inhibitors.

Gene targets for a variance-specific inhibition strategy in this invention satisfy three criteria.

A large number of references have identified essential genes which constitute actual or potential targets for allele specific inhibition. The identification of essential genes can be approached in various ways.

carbohydrates, lipids, organic ions, and inorganic ions, or cytoskeletal elements. The loss of homeostasis often results in cell death or apoptosis or inhibition of cell proliferation. Homeostasis in a living cell is dynamic, and programed changes in homeostasis are required through the life cycle. .

those genes whose products are required for maintaining this homeostasis conducive to cell growth and survival are targets for anti-neoplastic e.g., anti-cancer, inhibitors as described in the methods herein. For example, many genes are involved in synthetic functions, allowing the cells to produce essential cellular. . .

affecting the gene in a neoplastic disorder, establishes that the gene is a target gene potentially useful for identifying allele specific inhibitors and for other aspects of the invention. In addition, as described, target genes are useftil in embodiments of certain aspects of the. . .

(Type I Beta) L25441
GGTI3 (Geranylgeranyltransferase) Y08201
Geranylgeranyltransferase (Type 11 Beta-Subunit) X98001
3.5 Genes required for regulation of levels of organic ions
Gdp Dissociation Inhibitors
GDI Alpha (RAB GDP Dissociation Inhibitor Alpha) D45021
Rab Gdp (RAB GDP Dissociation Inhibitor Alpha) D13988
4) Genes Required to Maintain Cellular Proteins at Levels Compatible with Cell Growth or Survival
Polypeptide precursor biosynthesis
Amino acid biosynthesis and. . . processing peptidase alpha subunit)

D50913
MMP7 X07819
Proteasome Beta 6 D29012
Proteasome Beta 7 D38048
Proteasome C13 U 1 7496
232/116
Proteasome C2 D00759
Proteasome C7-1 D26599
Proteasome inhibitor hPI31 subunit D88378
Proteasome P I 12 D44466
Proteasome P27 ABOO3177
Proteasome P55 ABOO3103
Ubiquitin System
Enzyme E2-17 Kd(Cyclin-selective ubiquitin carrier protein) U73379
ISOT-3(Ubiquitin carboxyl-terminal hydrolase. . .

Cell Shape and Motility at Levels
Compatible with Cell Growth or Survival
Cell structure genes (Cytoskeleton)
Actin X04098
Beta-Contractin X82207
Capping Protein Alpha U03851
CFL I (Cofilin, Non-Muscle Isoform) X95404
Desmin J03191
Dystrophin U26743
Gelsolin X04412
hOGG I (Myosin Light Chain Kinase) ABOO0410
IC Heavy Chain U31089
Itga2 (Integrin, Alpha 2 (CD49B, alpha. . .

Therapy with inhibitors of conditionally essential genes involves administration of the inhibitor together with a chemical or physical elements that causes the target gene to be essential for cell survival or proliferation. The use of allele specific inhibitors in the current invention allows specific killing of cancer cells with such chemical or physical agent since the gene function that is essential for the survival of cells (in the presence of the chemical or physical agent) is inhibited in the cancer cell but not in the normal cell.

are responsible for maintaining cell survival or proliferation in the presence of a drug or biological material. For example, a drug that inhibits one pathway for maintaining the level of a cellular constituent within levels required for cell survival or proliferation may make alternative pathways essential. In a specific embodiment, the inhibition of a synthetic pathway for a cellular constituent may make alternative synthetic pathways essential for cell survival or proliferation. Alternatively, a . . . from the cell essential for continued survival or proliferation. It will be evident to those skilled in the art that anything which inhibits the ability of a cell to survive in the presence of a specific drug that is designed to be cytostatic or cytotoxic, will sensitize that cell to the effects of the drug. A chemosensitizing agent is one that inhibits a function

in the cell that is conditionally essential due to the administration of a chemotherapeutic drug.

in DNA repair may be essential that are not essential in the absence of the external physical force. An agent that inhibits functions in the cell that are essential due to the administration of ionizing radiation would be termed a radiosensitizing agent.

physical factors, determining whether such genes are subject to loss of heterozygosity, identifying alternative alleles in these genes and developing allele specific inhibitors of alternative forms of the gene.

The administration of such an inhibitor to a patient who has two alternative forms of the gene in normal cells but only one in the cancer cell. . . .

Thiopurine methyltransferase (GenBank U12387)
e. Inactivation or transformation of other drugs including, but not limited to, purine analogs, folate analogs, topoisomerase inhibitors and tubulin acting drugs via specific enzymatic modification.

I-kappa B alpha (GenBank M69043)
Increased expression of exogenous I kappa B-alpha, an inhibitor of NF-kappa B, increases cell sensitivity to ionizing radiation. Thus is conditionally essential for cells exposed to ionizing radiation.

affect the gene sequence, RNA sequence, or protein sequence of the gene or its gene products, which would facilitate the design of inhibitors of the protein product, or be a base difference anywhere within the genomic DNA sequence, including the promoter or intron regions. Such DNA sequence variance can be exploited to design inhibitors of transcription or translation which distinguish between two allelic forms of the targeted gene. Sequence variants that do not alter protein sequence. .

genes located in regions which are characteristically associated with LOH for a particular cancer, or other tumor are particularly advantageous targets for inhibitors useful for treatment of that cancer or tumor because such genes will also characteristically undergo LOH at high frequency. The fact that. . . LOH occurs before the clonal expansion of cancers in precancerous, abnormally proliferating tissue is potentially useful for preventing cancer with allele specific inhibitors of essential genes.

disorder will indicate that the allele specific treatment would be appropriate for the disorder. For the application of the general allele specific inhibition strategy to such conditions (e.g..

selection of target gene
and variance, identification of inhibitors, selection of
composition and
administration method appropriate for the condition and the
inhibitor), the cells
associated with the condition correspond with the tumor, e.g., cancer
cells, for the
232/116
methods described in the Summary above.

at least one marker. This does not
necessarily represent the maximum fraction of plaques which could
potentially be
treated with allele specific inhibitors because the study did
not attempt to determine
the sites of maximum LOH on each arm. LOH which is partial arm.

allele of the essential
gene is lost from the patient's cancer cells, the retained allele can be
targeted with an
allele specific inhibitor. Such an inhibitor will
kill, or reduce or prevent the growth
of cancer cells by abolishing the function of an essential gene. Normal
cells, which
retain both uninhibited and inhibited alleles, will survive or
grow due to the
expression of the uninhibited allele. This is clearly indicated because
tumor cells
having only one allelic form (after LOH) thrive, thus, normal cells will
also
function normally with one of two allelic forms inhibited.

neuroectodermal
tumor
Rhabdomyosarcoma
17q Breast carcinoma
Neurofibroma: N171
22q Acoustic neurinoma
1 8 Renal cell carcinoma Colorectal carcinoma
18q Breast carcinoma Ependymoma
Colorectal carcinoma Meningioma
Neurofibroma

V. Use of variance-specific inhibitors of essential genes to
treat non-malignant,
proliferative conditions.

will differ, with, for example, allele A
of a hypothetical essential gene lost in some plaques and allele A' in
others. An inhibitor of allele A would be expected to kill (or
arrest
growth of) only about half of all the plaques with allele. . .
plaques heterozygous for A. To kill the other
half of the plaques with allele loss at the target locus would require
an

inhibitor of A'. Simultaneous use of inhibitors of A
and A' would be
highly toxic to diploid normal cells. However serial use of an
inhibitor
directed to allele A followed by an inhibitor directed to A'
(perhaps
repeating treatment for several cycles, or even indefinitely) would
alternately abolish essential gene function in one half of all haploid
plaque
cells and then the other half, leading eventually to death or sustained
inhibition of proliferation of all plaque cells. Normal cells

would retain

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50% gene function in the presence of inhibitor (either from allele A or allele A'). This therapeutic approach is applicable to the eradication of any clonal proliferation of cells in. . .

surgically removed, LOH has been well described. As with atherosclerotic plaques, these tumors are frequently multifocal and therefore the approach of serial inhibition of allele A followed by

inhibition of allele A' would alternately abolish essential gene function in one half of all haploid tumor cells and then the other half, leading eventually to death or sustained inhibition of proliferation of all tumor cells.

one allelic form in individuals whose normal somatic cells are heterozygous for the particular essential gene. The essential gene can therefore be inhibited by an allele specific inhibitor, i.e., a variance specific inhibitor. In some conditions, however, multiple, independently arising lesions in an individual are subjected to LOH in a disease or condition, e.g., in. .

It was determined that such conditions can be treated using allele specific

inhibitors despite the presence of both alleles in cells related to the condition.

There are two strategies for such therapy. The first is to serially administer different inhibitors targeted to the different allelic forms of the target gene. This can be accomplished by using inhibitors which target the alternative sequence variants of one sequence variance site. Simultaneous administration of inhibitors of both allelic forms of an essential gene would inhibit the cells which have undergone LOH at that gene, but would also inhibit the normal heterozygous cells of the individual. This treatment would inhibit essential functions in normal cells as well as cancer cells and have no advantage ~~over~~ the administration of conventional antiproliferative drugs, many of which are inhibitors of known essential functions. In contrast, administration of the first inhibitor targets the subset of cells which have only the first allelic form of an essential gene. As described for the general strategy, this inhibitor will not significantly affect the growth or survival of the normal heterozygous somatic cells. This first administration is followed by administration of a second inhibitor; the second

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inhibitor targets the cells which contain only the second allelic form of the gene, and again does not significantly affect the normal. . . will be useful. Similarly, recurring, or even indefinitely continued alternating

administrations will provide useful treatment. Likewise, these methods can incorporate the use of inhibitors targeted to specific alleles of a plurality, e.g., 2, 3, 4, or more different target genes.

in non-malignant diseases are not clonal, there may be systematic loss of one parental chromosome allowing effective therapy with only one variance-specific inhibitor. This would occur, for example, if there were an inherited or early embryonic mutation within a tumor suppressor gene on one parental. . . of the corresponding normal tumor suppressor gene on the other parental chromosome would lead to abnormal proliferation. In such cases a variance-specific inhibitor of an essential gene that was closely linked to the normal tumor suppressor gene would preferentially kill cells in the proliferating lesion.

VI. Characteristics of allele-specific inhibitors

As indicated above allele specific inhibitors or allele specific anti-neoplastic agents represent a new approach to tumor therapy because they are lethal or significantly inhibit the growth only of tumor cells. The advantages of this approach include, first, lack of toxicity to the normal cells of. . . a therapeutic index greater than that of conventional tumor, e.g., cancer chemotherapy drugs, and second, it is not necessary that the inhibitors be targeted specifically to the tumor cells, as they can be administered systemically. As also described above, usually an allele specific inhibitor is specific for a single 232/116 sequence variance of an essential gene, though in some cases the inhibitor utilizes the joint effects of two or more sequence variances on a particular allele.

It is not necessary for the allele specific inhibitor to have absolute specificity.

of a gene product encoded by the essential gene will often show a reduction in gene activity when they take up the inhibitors of this invention, but should remain viable due to the activity of the protein encoded by the uninhibited allele. On the other hand, tumor cells expressing only one allele due to LOH, will respond to the inhibitors of this invention which are specifically directed to the remaining allele, with a greater reduction in gene activity. Growth of tumor cells exposed to the inhibitors of this invention will be inhibited due to the suppression of either the synthesis or the biological activity of the essential gene product.

only two allelic forms in any given individual, the gene can have more than two allelic forms in a human population.

Accordingly,

inhibitors can be targeted to any of the alleles in the population. A particular

inhibitor will generally be targeted to a subset of the allelic forms; the members of the subset will have a particular sequence variance which provides the specific targeting. In some cases, however, the inhibitor will jointly target two, or possibly more sequence variances.

Once two or more alleles are identified for a target essential gene, inhibitors of high specificity for an allele can be designed or identified empirically. Inhibitors that can be used in the present invention will depend on whether allelic variation at a target locus affects the amino acid. . . the mRNA sequence, or the DNA in intron and promoter regions. If there is variation at the protein level, then classes of inhibitors would include low molecular weight drugs, oligopeptides and their derivatives, and antibodies, including modified or partial 232/116 antibody fragments or derivatives. For mRNA or DNA sequence variance the main class of inhibitors are complementary oligonucleotides and their derivatives and catalytic RNA molecules such as ribozymes, including modified ribozymes.

The generation of inhibitors of this invention can be accomplished by a number of methods. The preferred method for the generation of specific inhibitors of the targeted allelic gene product uses computer modeling of both the target protein and the specific inhibitor. Other methods include screening compound libraries or microorganism broths, empirical screening of libraries of peptides displayed on bacteriophage, and various immunological approaches.

Further, in the treatment of cancer patients, a therapeutic strategy includes using more than one inhibitor of this invention to inhibit more than one target. In this manner, inhibitors directed to different proteins essential to cell growth can be targeted and inhibited simultaneously. The advantage of this approach is to increase the specificity of the inhibition of proliferation of cancer cells, while at the same time maintaining a low incidence of side effects.

structure of the alternate allelic forms of the proteins, determinants can be identified which distinguish the allelic forms. Novel low molecular weight

inhibitors or oligopeptides can then be designed for selective binding to these determinants and consequent allele-specific inhibition.

Descriptions of targeted drug design can be found, for example, in I. Kuntz, Structure-Based Strategies

for Drug Design and Discovery, Science 257:1078-1082. . . have been described in Piper et al., Studies Aided by Molecular Graphics of Effects of Structural Modifications on the Binding of Antifolate Inhibitors to Human Dihydrofolate Reductase, Proc Am. Assoc. Cancer Res. Annual Meeting 33:412 (1992); Hibert et al., Receptor 3D-Models and Drug Design, Therapie. . .

Low molecular weight inhibitors specific for each allelic protein form can be predicted by molecular modeling and synthesized by standard organic chemistry techniques. Computer modeling can. . .

The inhibitors of this invention can be identified by selecting those compounds that selectively inhibit the growth of cells expressing one allelic form of a gene, but do not inhibit the activity of the A allelic form.

B. Small Molecule Inhibitors 232/116

Low molecular weight inhibitors can be identified and generated by at least one of the following methods; (1) screening of small organic molecules present in microorganism. . .

Inhibition of protein function following differential binding. Several mechanisms of inhibition are possible including.

competitive inhibition of active sites or critical allosteric sites,
allosteric inhibition of protein function,
altering compartmentalization or stability, and
inhibition of quaternary associations.

compounds that interact with particular features of a polypeptide or protein or protein complex, There are clear precedents for developing drugs, i.e., inhibitors, that are variance-specific including drugs that are allosteric inhibitors of protein functions. Several lines of experimental evidence demonstrate that small molecule variance specific
232/116
inhibitors can be designed and constructed for particular targets. Specifically.

Allosteric (noncompetitive) inhibition of protein function may be induced by binding ligands to many different surfaces of a protein. Ligands can cause allosteric inhibition by disturbing secondary, tertiary or quaternary (subunit-subunit) interactions of a protein. There is ample evidence that such effects can be induced by. . .

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Competitive inhibitors can exert variance-specific effects by exhibiting differential affinities for variant active sites, thereby interfering

with
binding of the substrate or critical allosteric. . .

Competitive inhibitors may bind with equal affinity for the active site but exerting different effects on the structure or function of the variant domain.

Allosteric inhibitors can exert variance-specific effects by binding differentially to variant forms of the active domain and distorting the structure or function of the. . .

model the topology and surface chemistry of the target in detail. These data are useful in optimizing the binding specificity or allosteric inhibitory function of the product through a series of iterative steps once a prototype binding ligand is identified. Structural modeling of the target. . .

Sites of allosteric inhibition
Most drug development focuses on competitive inhibitors of protein action rather than noncompetitive, allosteric inhibitors. There is no a priori advantage to a competitive versus allosteric inhibitor except for the fact that medicinal chemistry often begins with candidate molecules derived from natural substrates or cofactors. There are, in fact, conceptual advantages to allosteric inhibitors since each protein may contain multiple allosteric sites, and allosteric inhibitors may be effective at lower concentrations (e.g. those equivalent to the substrate) since there is no need to compete with the substrate. . .

Detailed crystallographic and other structural studies of a variety of enzymes show that the mechanism of allosteric inhibition commonly involves conformational changes (e.g. domain movements) far from the site of contact with the allosteric regulator. These data illustrate the cooperativity. . .

several well-characterized proteins. Another is to examine the distribution of epitopes for antibodies that bind to the surface of a protein and

inhibit its function. Analyses of these types show that allosteric sites are widely dispersed within proteins and may comprise the majority of. . .

Three HIV-1 RT structures have been published, including complexes with double stranded DNA at 3.0 Å resolution and with the non-nucleoside inhibitors nevirapine (at 3.5Å) and -APA (at 2.8Å).

Two classes of HIV-1 RT inhibitors have been developed. The first class comprises nucleoside analogues including AZT, ddI and ddC. The second class comprises non-nucleoside analogues belonging to. . . 5 shows the location of selected mutations within HIV-1 RT that cause resistance to nucleoside analogues as well as the

mechanism of

inhibition postulated from physical-chemical experiments and structural data; the list is not comprehensive.

Table 4

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Location and postulated mechanism of amino acid substitutions which confer resistance to nucleoside analog inhibitors. trp266X - multiple substitutions.

analog resistance arises from mutations in multiple domains. Many of the mutations are located far from the dNTP binding sites. These changes inhibit drug function by altering the conformation of the target protein in a manner analogous to those conformational changes that may be induced by an allosteric inhibitor.

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Table 5 summarizes the mutations that alter the function of non-nucleoside inhibitor drugs

Table 5

Location and postulated mechanism of amino acid substitutions which confer resistance to non-nucleoside analog inhibitors.

ala98gly 5b- 6 loop flexibility Pyridinone L-697661,

Nevirapine

leul.00ile 5b- 6 loop -branch Pyridinone L-697661

Nevirapine, TIBO R82913

lys101glu 5b- 6 loop charge Pyridinone. . . loop flexibility BHAP U-87201

lys238thr 14 charge BHAP U-87201

trp266X -thumb TIBO R82913

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It is evident from these examples that the substitutions which inhibit drug functions are distributed across several domains. Different inhibitory mechanisms have been postulated in domains throughout the protein, based on the three-dimensional structure of the protein. Most involve conformational disruption of.

Thyrotropin receptor Naturally occurring antibodies against the thyrotropin

receptor can cause activation of thyroid function (Grave's disease) or inhibition of thyroid function (Hashimoto's disease). The sites within the thyrotropin receptor that are targeted by these natural antibodies have been mapped in detail and have

been tested with monoclonal antibodies. Most of the inhibitory antibodies do not interfere with binding of thyrotropin to its receptor, and thus, are allosteric rather than competitive inhibitors. Several independent classes of inhibitory antibodies have been identified that bind to epitopes within different domains of the receptor.

can be deleted by site-directed mutagenesis without disrupting the function of the receptor. These experiments provide an explicit precedent for achieving allosteric inhibitory effects from ligands that target widely dispersed sequences within the protein.

Thermus aquaticus DNA polymerase The inhibitory activity of 24 monoclonal antibodies to *Thermus aquaticus* DNA polymerase has been investigated. The antibodies recognized 13 non-overlapping epitopes. Antibody binding to eight epitopes was inhibitory. Inhibitory antibodies mapped to several distinct domains, including the 5' nuclease domain, the polymerase domain and the boundary region between the 5' nuclease and polymerase domains. Some antibodies recognized epitopes overlapping the DNA binding groove of the polymerase. Significantly, the inhibitory antibodies recognized epitopes constituting as much as 50% of the Taq polymerase surface, and the non-inhibitory antibodies a further ~25%.

the pharmaceutical industry has worked to develop chemically modified penicillins and cephalosporins to elude inactivation by β -lactamases. In addition, a β -lactamase inhibitor (clavulanic acid) has also been introduced into clinical use.

associated with drug resistance distributed evenly across the 740 amino acids of the protein. The mechanism by which some of these substitutions inhibit *katG* function can be inferred from the structure of the homologous yeast and *E. coli* enzymes and knowledge of the catalytic.

The application of small molecule inhibitor identification is specifically discussed in Example 39 below in connection with the methylguanine methyltransferase gene.

C. Antibody Inhibition.

Antibody inhibitors are most effective when they are directed against cell surface proteins or receptors. If the essential protein produced by the targeted allele is not a cell surface protein or receptor, the development of antibody inhibitors may also require the use of a special antibody-delivery system to facilitate entry of the antibody into the tumor cells. The plasma. . . the structure of the variable region of allele specific antibodies can be used as the basis for design of smaller allele specific inhibitory molecules.

receptors or other polypeptides essential for cell viability. Methods for screening peptide sequences

which have high specificity for binding to, and functional inhibition of, a specific polypeptide target have been well described previously. Scott, J.K. and Smith G.P., Searching for Peptide Ligands with an Epitope. . . by phage display of polypeptide sequences as well as direct screening of peptides or mixtures of synthetic peptides for binding to or inhibition of the target functional polypeptide.

Ribozymes

Oligonucleotides or oligonucleotide analogs which interact with complementary sequences of cellular target DNA or RNA can be synthesized and used to inhibit or control gene expression at the levels of transcription or translation. The oligonucleotides of this invention can be either oligodeoxyribonucleotides or oligoribonucleotides, or. . . they can act enzymatically, such as ribozymes. Both antisense RNA and DNA can be used in this capacity as chemotherapeutic agents for inhibiting gene transcription or translation. Trojan, J., et al, Treatment and prevention of rat glioblastoma, by immunogenic C6 cells expressing antisense insulin-like growth. . .

Inhibitory complementary oligonucleotides may be used as inhibitors for cancer therapeutics because of their high specificity and lack of toxicity.

Included in the scope of the invention are oligoribonucleotides, including antisense RNA and DNA molecules and ribozymes that function to inhibit expression of an essential gene in an allele specific manner. Anti-sense RNA and DNA molecules act to directly block the translation of. . .

A specific application of generating inhibitors which are either complementary oligonucleotides or inhibitory oligopeptides is described in Holzmayer, Pestov, and Roninson, Isolation of dominant negative mutants and inhibitory antisense RNA sequences by expression selection of random DNA fragments, Nucleic Acids Research 20:711-717 (1992). In this study, genetic suppressor elements (GSEs). . .

Preferred oligonucleotide inhibitors include oligonucleotide analogues which are resistant to degradation or hydrolysis by nucleases. These analogues include neutral, or nonionic, methylphosphonate analogues, which retain. . .

F, Gene Therapy

Nucleic acid molecules encoding oligonucleotide or polypeptide inhibitors will also be useful in gene therapy (reviewed in Miller, Nature 357:455-460, (1992). Miller indicates that advances have resulted in practical approaches. . .

A nucleic acid sequence encoding an inhibitor may be administered utilizing an ex vivo approach

whereby cells are removed from an animal, transduced with the nucleic acid sequence and reimplanted. . .

Many nonviral techniques for the delivery of a nucleic acid sequence encoding an

inhibitor into a cell can be used, including direct naked DNA uptake (e.g., Wolff et al., Science 247: 1465-1468, 1990), receptor-mediated DNA. . .

its simplest form, gene transfer can be performed by simply injecting minute amounts of DNA (e.g., a plasmid vector encoding an inhibitor) into the nucleus of a cell, through a process of microinjection. Capecchi MR, Cell 22:479-88 (1980).

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In another preferred embodiment, a vector having nucleic acid sequences encoding

an allele specific inhibitor is provided in which the nucleic acid sequence is expressed only in specific tissue. Examples or methods of achieving tissue-specific gene expression. . .

V11. Utility of allele-specific inhibitors of essential genes
A, Conditions susceptible to therapy.

The fraction of all cancers could be treated with allele specific inhibitors directed against allele specific essential gene targets is a function of the frequency of the target allele and the frequency of LOH.. . . exist in two allelic forms, each with an allele frequency of 0.5 so that half the population would be heterozygous. An inhibitor of one allele of such an ideal target would be a useful agent for 25% of all cancer patients. An inhibitor of the other allele of the same ideal target would be therapeutic for an additional 25% of all patients, making 50%. . .

Allele specific inhibitors of both alleles of such targets would be expected to address $0.4 \times 0.5 = 0.2$ or 20% of the relevant. . .

<-----User Break----->

=> s actin

15854 ACTIN

208 ACTINS

L24

15915 ACTIN

(ACTIN OR ACTINS)

=> s stabil?

L25 282338 STABIL?

=> s ewing?

L26 3185 EWING?

=> s 126 and 124

L27 1098 L26 AND L24

=> s 127 and 125

L28 1004 L27 AND L25

=> s 124/ab
151 ACTIN/AB
1 ACTINS/AB
L29 152 (ACTIN/AB)
(ACTIN OR ACTINS)/AB)

=> s 129 and 126
L30 5 L29 AND L26

=> s 130 and 125
L31 5 L30 AND L25

=> d ibib 1-5

L31 ANSWER 1 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2006029046 PCTFULL ED 20060403 EW 200611
TITLE (ENGLISH): USE OF LEPTIN IN WOUND HEALING
TITLE (FRENCH): UTILISATION DE LEPTINE DANS LA GUERISON DE PLAIE
INVENTOR(S): SIERRA-HONIGMANN, Maria Rocio, 656 Camino de la Luna,
Thousand Oaks, California 91320, US
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Street, Los Angeles, California 90017-2566;
90017-2566\$; US
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 2006029046	A2	20060316
DESIGNATED STATES			
W:	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW		
RW (ARIPO):	BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW		
RW (EAPO):	AM AZ BY KG KZ MD RU TJ TM		
RW (EPO):	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL PL PT RO SE SI SK TR		
RW (OAPI):	BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG		
APPLICATION INFO.:	WO 2005-US31455	A	20050902
PRIORITY INFO.:	US 2004-60607115		20040903

L31 ANSWER 2 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2005042726 PCTFULL ED 20050519 EW 200519
TITLE (ENGLISH): METHODS FOR MODULATING AN IMMUNE RESPONSE BY MODULATING
KRC ACTIVITY
TITLE (FRENCH): METHODES PERMETTANT DE MODULER UNE REPOSE IMMUNITAIRE
PAR MODULATION DE L'ACTIVITE DE KRC
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LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2005042726	A2	20050512

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO
CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR
HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ
VC VN YU ZA ZM ZW

RW (ARIPO):

BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
LU MC NL PL PT RO SE SI SK TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2004-US36641 A 20041103

PRIORITY INFO.:

US 2003-10/701,401 20031103

L31 ANSWER 3 OF 5

ACCESSION NUMBER:

PCTFULL COPYRIGHT 2006 Univentio on STN

TITLE (ENGLISH):

2003027235 PCTFULL ED 20030410 EW 200314

TITLE (FRENCH):

AFAP SEQUENCES, POLYPEPTIDES, ANTIBODIES AND METHODS
SEQUENCES AFAP, POLYPEPTIDES, ANTICORPS ET PROCEDES
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LANGUAGE OF FILING:

English

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2003027235	A2	20030403

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

RW (ARIPO):

GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC
NL PT SE SK TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2002-US29559 A 20020918

PRIORITY INFO.:

US 2001-60/323,866 20010921

L31 ANSWER 4 OF 5

ACCESSION NUMBER:

PCTFULL COPYRIGHT 2006 Univentio on STN

TITLE (ENGLISH):

2002102846 PCTFULL ED 20030115 EW 200252

TITLE (FRENCH):

PHARMACEUTICAL COMPOSITION FOR DIAGNOSIS, PREVENTION OR
TREATMENT OF A TUMOROUS STATE, COMPRISING A MODULATOR
OF THE ACTIN POLYMERISATION STATE
COMPOSITION PHARMACEUTIQUE POUR LE DIAGNOSTIC, LA
PREVENTION OU LE TRAITEMENT D'UNE PATHOLOGIE TUMORALE,
COMPRENANT UN AGENT MODULATEUR DE L'ETAT DE

INVENTOR(S): POLYMERISATION DE L'ACTINE
 AUCLAIR, Christian, 22, avenue Parmentier, F-75011
 Paris, FR [FR, FR];
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 F-75011 Paris, FR [FR, FR];
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 SUBRA, Frederic, 3 bis, rue d'Athenes, F-75009 Paris,
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 HERVY, Martial, 5, rue de l'Amiral Mouchez, F-75013
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 SUBRA, Frederic, 3 bis, rue d'Athenes, F-75009 Paris,
 FR [FR, FR], for US only

AGENT: BRESSE, Pierre\$, Bresse-Majerowicz, 3, avenue de
 l'Opera, F-75001 Paris\$, FR

LANGUAGE OF FILING: French
 LANGUAGE OF PUBL.: French
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002102846	A2	20021227

DESIGNATED STATES

W:

RW (ARIPO): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

RW (EAPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EPO): AM AZ BY KG KZ MD RU TJ TM

RW (OAPI): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

APPLICATION INFO.: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

PRIORITY INFO.: WO 2002-FR2106 A 20020618
 FR 2001-01/07976 20010618

L31 ANSWER 5 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER: 1999022028 PCTFULL ED 20020515

TITLE (ENGLISH): MODULATORS OF ACTIN

TITLE (FRENCH): MODULATEURS D'ACTINE

INVENTOR(S): KING, Mary-Claire;
 LYNCH, Eric, D.;
 LEE, Ming, K.;
 MORROW, Jan, E.;
 WELCSH, Piri, L.;
 LEON, Pedro, E.

PATENT ASSIGNEE(S): THE UNIVERSITY OF WASHINGTON;
 THE UNIVERSITY OF COSTA RICA

LANGUAGE OF PUBL.: English

DOCUMENT TYPE: Patent

PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9922028	A1	19990506
DESIGNATED STATES	CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL		
W:	PT SE		
APPLICATION INFO.:	WO 1998-US23024	A	19981029
PRIORITY INFO.:	US 1997-60/063,737		19971029
	US 1998-09/080,897		19980518

=> d kwic 31

5 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.

ENTER ANSWER NUMBER OR RANGE (1):eng

ANSWER NUMBERS NOT CORRECTLY SPECIFIED

Enter an answer number, Example: 10
several answer numbers, Example: 3,7,10
a range of answer numbers, Example: 5-10
or a combination of these. Example: 3,7,9-10,15
ENTER ANSWER NUMBER OR RANGE (1):end

=> d kwic 3

L31 ANSWER 3 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ABEN The present invention comprises reagents and methods which target
actin filaments or the cellular signals that control
actin filament integrity. Specifically, the invention provides
novel actin binding polypeptides (e.g., human AFAP
polypeptides), antibodies which specifically recognize the same, nucleic
acids encoding the same, and methods for. . .

DETD . . . aspect, the pathology is cancer, e.g., such as breast cancer,
colon cancer,
prostate cancer, lung cancer, a cancer involving neural cells,
Ewing sarcoma and
rhabdomyosarcoma.

. . .
acids comprising one or more of modified bases, sugars, and
intermolecule linkages
which preferably have the substantially the same or enhanced
stability and/or specificity for a
target nucleic acid as the nucleic acids from which they are derived.

. . .
Antisense nucleic acids can also be
chemically synthesized and can be deoxynucleotides or modified forms
thereof which are
selected to have enhanced stability in vivo.

. . .
activated in a number of human cancers including breast cancer,
colon cancer, prostate cancer, lung cancer (e.g., small lung cell
carcinoma), neuroblastoma,
Ewing sarcoma and rhabdomyosarcoma (Cartwright et al., 1990,
supra; Rosen et al., 1986,
supra).

. . .
breast cancer, colon cancer, prostate cancer, lung cancer
(e.g., small lung cell carcinoma), a cancer involving neural cells
(e.g., such as neuroblastoma),
Ewing sarcoma and rhabdomyosarcoma.

. . .
forms thereof. In one aspect, the condition is cancer (e.g.,
such as breast cancer, colon cancer, prostate cancer, lung cancer,

neuroblastoma, Ewing sarcoma and rhabdomyosarcoma). In another aspect, the condition is a neurological disease (which can

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The agents, agonists, and antagonists may be formulated. . .

and coverslips and observed under confocal microscopy (Zeiss, Oberkochen, Germany). Samples for negative staining were adsorbed to grids coated with nitrocellulose and stabilized with carbon (Ernest F. Fullam, Latham, NY). Unbound protein was removed by successive washes with buffer and water before staining with.

CLMEN. . . said cancer is selected from the group consisting of. breast cancer, colon cancer, prostate cancer, lung cancer, a cancer involving neural cells, Ewing sarcoma and rhabdomyosarcoma.

=> d kwic 5

L31 ANSWER 5 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ABEN The invention provides methods and compositions which find use, i(inter alia), for modulating the stabilization of actin filaments. The compositions may comprise one or more polypeptide moieties derived from a novel human diaphanous polypeptide and/or one or. . .
ABFR L'invention concerne des procedes et des compositions permettant, entre autres choses, de moduler la stabilisation des filaments d'actine. Ces compositions peuvent comprendre une ou plusieurs fractions de polypeptide derivees d'un nouveau polypeptide diaphane de l'homme. . .

DETD INTRODUCTION
Field of the Invention
The invention relates to a class of polypeptides involved in actin stabilization.
of the Invention
The actin cytoskeleton plays a central role in defining cellular structure and effecting dynamic changes in morphology. By selectively stabilizing and destabilizing actin polymerization, the cell is able to effect a wide range of structural reorganization and effect phenomena such as cell. . .
the progress of many pathogenic infections, invasion and metastasis of neoplasia, fertilization, clotting and wound repair, etc., the stability of actin polymerization is a choice target for therapuetic intervention. In fact, potent drugs effecting actin filament destabilization and stabilization such as fungal-derived alkaloids including the cytochalasins and phalloidins are well known. Here we disclose a new family of modulators of actin polymer stabilization derived from a novel human diaphanous protein and gene.

SUMMARY OF THE INVENTION

The invention provides methods and compositions which find use. inter alia, for modulating the stabilization of actin filaments. The

compositions may comprise one or more polypeptide moieties derived from a novel human diaphanous polypeptide and/or one. . .

other polypeptide moieties, complexed in a wide variety of covalent and/or non-covalent associations and binding complexes, etc., which may provide enhanced activity, stability, availability, targeting, etc.

polypeptide
hDial-del-15: CYCLIN B2 - residues 1141-1171 of SEQ ID NO:2 fusion polypeptide
The invention provides methods and compositions of selectively modulating cytoskeletal de/stabilization and/or the effective concentration of a human diaphanous protein within a target cell. The general methods involve introducing into the target. . . the human diaphanous polypeptide moiety, the modulator may comprise a wide variety of additional moieties, including moieties which provide for detection, targeting, stability, proteolytic resistance, etc. Preferred modulators demonstrate cytoskeletal de/stabilization with several alternative methods of introduction, including direct medium uptake, uptake facilitated by chaotropic agents including detergents (e.g. TWEEN20, etc.), guanidine salts, . . .

to a probe specific for the binding agent. Agents of particular interest modulate human diaphanous polypeptide function, e.g. human diaphanous

5

polypeptide-dependent actin de/stabilization.

usually RNA or DNA, it is often advantageous to use nucleic acids comprising other bases or nucleotide analogs to provide modified stability, etc.

3.0 were transferred to a UNIX-based Sun workstation for cont-ig' assembly and blast analysis. The computer program PHRED (Green P and Ewing B. 1996.

phrap.docs/ phred.html) was used to assign bases to the electropherograms. After eliminating vector sequences, the program PHRAP (Green P 1 0 and Ewing B. 1996. <http://www.bozeman.mbt.washington.edu/phrap.docs/phrap.html>) was used to analyze the sequences, identify overlapping individual sequences, and assemble them into contigs. To. . .

daily blood and peritoneal sample to evaluate peritoneal fluid cell counts, hematological cell counts, serum chemistries, bacterial cultures as needed, vector stability, viral uptake by cells, expression of hDial gene and presence of antibodies to vector envelope proteins. At four week intervals patients are. . .

Detection of vector stability and expression. DNA is prepared from cell samples by hypotonic lysis, digestion with proteinase K (Boehringer Mannheim, Indianapolis. Indiana) and SDS, followed. . .

PCR primers specific for the neo sequences within the LXSN-hDialsv vector are employed for determination of vector presence and stability within patient samples. RT-PCR is performed by our published methods (Thompson, M. E., et al. Nature Genetics 9, 444-450] 1995.).

=> s ewing sarcoma or (ewing? sarcoma
UNMATCHED LEFT PARENTHESIS 'OR (EWING?'
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s ewing sarcoma or (ewing? sarcoma)
3035 EWING
132 EWINGS
3112 EWING
(EWING OR EWINGS)
18118 SARCOMA
5088 SARCOMAS
5 SARCOMATA
19804 SARCOMA
(SARCOMA OR SARCOMAS OR SARCOMATA)
392 EWING SARCOMA
(EWING(W) SARCOMA)
3185 EWING?
18118 SARCOMA
5088 SARCOMAS
5 SARCOMATA
19804 SARCOMA
(SARCOMA OR SARCOMAS OR SARCOMATA)
400 EWING? SARCOMA
(EWING?(W) SARCOMA)
L32 400 EWING SARCOMA OR (EWING? SARCOMA)

=> d his

(FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006)

FILE 'REGISTRY' ENTERED AT 14:41:55 ON 17 APR 2006
E "DOLASTATIN"/CN 25

L1 1 S E6

FILE 'CAPLUS' ENTERED AT 14:42:50 ON 17 APR 2006

L2 52669 S ACTIN
L3 812 S COFILIN
L4 1968300 S ANTAG? OR INHIBIT?
L5 222 S L4 (L) L3
L6 1659 S EWING?
L7 1 S L6 AND L5
L8 22 S L1
L9 0 S L8 AND L6
L10 224 S ZYXIN
L11 3 S L10 AND L6
L12 6 S L3 AND L6
L13 4 S L12 AND L4
L14 989 S PHOSPHOINOSITOL?
L15 0 S L14 AND L6
L16 98 S PHOSPHOTIDYLINOSITOL
L17 0 S L15 AND L6

FILE 'PCTFULL' ENTERED AT 14:49:15 ON 17 APR 2006

L18 188 S COFILIN

L19 3185 S EWING?
 L20 19 S L19 AND L18
 L21 198141 S ANTAG? OR INHIBIT?
 L22 19 S L20 AND L21
 L23 4 S L22 NOT PY>2001
 L24 15915 S ACTIN
 L25 282338 S STABIL?
 L26 3185 S EWING?
 L27 1098 S L26 AND L24
 L28 1004 S L27 AND L25
 L29 152 S L24/AB
 L30 5 S L29 AND L26
 L31 5 S L30 AND L25
 L32 400 S EWING SARCOMA OR (EWING? SARCOMA)

=> s 132 and 124
 L33 165 L32 AND L24

=> s 133 and 125
 L34 137 L33 AND L25

=> s 134 not py>2001
 488865 PY>2001
 L35 54 L34 NOT PY>2001

=> s 135 and 129
 L36 0 L35 AND L29

=> s 124/clm
 L37 1198 (ACTIN/CLM)

=> s 137 and 135
 L38 5 L37 AND L35

=> s 124/ti
 L39 44 (ACTIN/TI)

=> s 139 and 135
 L40 0 L39 AND L35

=> d ibib 138 1-5

L38 ANSWER 1 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 2001055368 PCTFULL ED 20020827
 TITLE (ENGLISH): NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES
 TITLE (FRENCH): ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS
 INVENTOR(S): ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
 ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2001055368	A1	20010802

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
 MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
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APPLICATION INFO.:	CG	CI	CM	GA	GN	GW	ML	MR	NE	SN	TD	TG						
PRIORITY INFO.:	WO	2001-US1348						A	20010117									
	US	2000-60/179,065							20000131									
	US	2000-60/180,628							20000204									
	US	2000-60/184,664							20000224									
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US 2000-60/237,037	20001002
US 2000-60/236,802	20001002
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US 2000-60/239,935	20001013
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US 2000-60/249,297	20001117
US 2000-60/249,214	20001117
US 2000-60/249,264	20001117
US 2000-60/249,209	20001117
US 2000-60/249,300	20001117
US 2000-60/249,265	20001117
US 2000-60/250,391	20001201
US 2000-60/250,160	20001201
US 2000-60/256,719	20001205
US 2000-60/251,030	20001205

US 2000-60/251,988	20001205
US 2000-60/251,479	20001206
US 2000-60/251,869	20001208
US 2000-60/251,856	20001208
US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 2 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 2001055328 PCTFULL ED 20020827
 TITLE (ENGLISH): NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES
 TITLE (FRENCH): ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS
 INVENTOR(S): ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
 ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE

WO 2001055328	A2	20010802

DESIGNATED STATES
 W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
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 CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:
 PRIORITY INFO.:

WO 2001-US1359	A	20010117
US 2000-60/179,065		20000131
US 2000-60/180,628		20000204
US 2000-60/184,664		20000224
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US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 3 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
2001055201 PCTFULL ED 20020827

NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES
ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS

ROSEN, Craig, A.;
BARASH, Steven, C.;
RUBEN, Steven, M.

HUMAN GENOME SCIENCES, INC.;
ROSEN, Craig, A.;
BARASH, Steven, C.;
RUBEN, Steven, M.

Patent

NUMBER	KIND	DATE

WO 2001055201	A1	20010802

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD

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WO	2001-US1317						A	20010117									
US	2000-60/179,065							20000131									
US	2000-60/180,628							20000204									
US	2000-60/184,664							20000224									
US	2000-60/186,350							20000302									
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US	2000-60/228,924							20000830									

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US 2000-60/249,265	20001117
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US 2000-60/250,160	20001201
US 2000-60/256,719	20001205

US 2000-60/251,030	20001205
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US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 4 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 2001054733 PCTFULL ED 20020827
 TITLE (ENGLISH): NUCLEIC ACIDS, PROTEINS AND ANTIBODIES
 TITLE (FRENCH): ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS
 INVENTOR(S): ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
 ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2001054733	A1	20010802

DESIGNATED STATES
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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
 MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
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 CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:
 PRIORITY INFO.:

WO 2001-US1312	A	20010117
US 2000-60/179,065		20000131
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US 2000-60/184,664		20000224
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US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 5 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
 2001053514 PCTFULL ED 20020827
 TOXICANT-INDUCED DIFFERENTIAL GENE EXPRESSION
 EXPRESSION GENETIQUE DIFFERENTIELLE INDUITE PAR
 SUBSTANCES TOXIQUES
 REIDHAAR-OLSON, John, F.
 GLAXO GROUP LIMITED;
 REIDHAAR-OLSON, John, F.
 Patent

NUMBER	KIND	DATE
WO 2001053514	A1	20010726

DESIGNATED STATES

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AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
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 KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
 UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
 ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI
 FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA

APPLICATION INFO.: GN GW ML MR NE SN TD TG
WO 2001-US1920 A 20010119
PRIORITY INFO.: US 2000-09/489,220 20000121

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LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS	4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS	5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	6	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	7	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS	8	JAN 30	Saved answer limit increased
NEWS	9	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS	10	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	12	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	13	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS	14	FEB 28	TOXCENTER reloaded with enhancements
NEWS	15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	16	MAR 01	INSPEC reloaded and enhanced
NEWS	17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS	18	MAR 08	X.25 communication option no longer available after June 2006
NEWS	19	MAR 22	EMBASE is now updated on a daily basis
NEWS	20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS	21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS	22	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS	23	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS	24	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS	25	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
<http://download.cas.org/express/v8.0-Discover/>

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FILE 'HOME' ENTERED AT 16:12:12 ON 17 APR 2006

=> file pctfull		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'PCTFULL' ENTERED AT 16:12:30 ON 17 APR 2006
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FILE LAST UPDATED: 11 APR 2006 <20060411/UP>
MOST RECENT UPDATE WEEK: 200614 <200614/EW>
FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.

SEE

<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE
(last updated April 10, 2006) <<<

=> s jasplakinolide
171 JASPLAKINOLIDE
1 JASPLAKINOLIDES
L1 171 JASPLAKINOLIDE
(JASPLAKINOLIDE OR JASPLAKINOLIDES)

=> s ewing? (2W) sarcoma
3185 EWING?
18118 SARCOMA
5088 SARCOMAS
5 SARCOMATA
19804 SARCOMA
(SARCOMA OR SARCOMAS OR SARCOMATA)
L2 1574 EWING? (2W) SARCOMA

=> s 12 and 11
L3 36 L2 AND L1

=> s 13 not py>2001
488865 PY>2001

L4 1 L3 NOT PY>2001

=> d ibib

L4 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000071135 PCTFULL ED 20020515
TITLE (ENGLISH): ANTI-TUMOR COMPRISING BOROPROLINE COMPOUNDS
TITLE (FRENCH): AGENTS ANTI-TUMORALES CONTENANT DES COMPOSES DE
BOROPROLINE
INVENTOR(S): WALLNER, Barbara, P.;
MILLER, Glenn
PATENT ASSIGNEE(S): POINT THERAPEUTICS, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000071135	A1	20001130

DESIGNATED STATES

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AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
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MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ
TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US14505 A 20000525
PRIORITY INFO.: US 1999-60/135,861 19990525

=> d kwic

L4 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . myxoid liposarcomas and pleiomorphic
liposarcomas), leiomyosarcomas, rhabdomyosarcomas, malignant peripheral
nerve sheath
tumors (also called malignant schwannomas, neurofibrosarcomas, or
neurogenic sarcomas),
Ewing's tumors (including Ewing's sarcoma of bone,
extraskelatal [not bone] Ewing's
io sarcoma, and primitive neuroectoderinal tumor [PNET]),
synovial sarcoma, angiosarconias,
hemangiosarcomas, lymphangiosarcomas, Kaposi's sarcoma,
hemangioendothelioma,
fibrosarcoma, desmoid tumor (also called aggressive fibromatosis),
dermatofibrosarcoma
protuberans (DFSP),. . .

. . .
immunostimulant peptides-, insulin-like growth factor-I receptor
inhibitoi, interferon
agonists; interferons; interleukins; iobenguane; lododoxorubicin;
lporneanol, 4-; irinotecan;
irolact; irsogladine; isobengazole; ischomohalicondrin B; itasetron;
jasplakinolide;
kahalalide F; lamellarin-N triacetate; lanreotide; leinamycin;
lenograstim; lentinan sulfate;
leptolstatin; letrozole; leukemia inhibiting factor; leukocyte alpha
interferon; leuprolide +
estrogen + progesterone; leuprorelin;. . .

=> s hepatocarcinoma? or mesenchymal or neuroectodermal
463 HEPATOCARCINOMA?

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4765 MESENCHYMAL
    (MESENCHYMAL OR MESENCHYMALS)
922 NEUROECTODERMAL
    1 NEUROECTODERMALS
922 NEUROECTODERMAL
    (NEUROECTODERMAL OR NEUROECTODERMALS)
L5      5608 HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL

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=> s 15 and 14

L6 1 L5 AND L4

=> d kwic\

'KWIC\' IS NOT A VALID FORMAT FOR FILE 'PCTFULL'

The following are valid formats:

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ALL, MAX-----BIB plus IND plus ABS plus TX
ALLG-----ALL, MAX plus GI
BIB-----AN, ED, UP, EW, UW, TIEN, TIFR, TIDE, TIES, IN, PA, LA, LAF
            DT, PI, DS, AI, PRAI
BIBG-----BIB plus GI
IND, IPC-----ICM, ICS
ABS-----ABEN, ABF, ABFR, ABDE, ABES
TX-----DETD, CLM
IALL,IMAX-----ALL indented with text labels
IALLG,IMAXG-----IALL, IMAX plus GI
DALL-----Delimited ALL format
STD-----BIB plus IND
STDG-----STD plus GI
ISTD-----STD indented with text labels
ISTDG-----ISTD plus GI
BRIEF-----BIB plus ABS
BRIEFG-----BIB plus ABS plus GI
IBRIEF-----BRIEF indented with text labels
IBRIEFG-----IBRIEF plus GI
SCAN-----TI (random display without AN)
TRIAL (TRI)-----FA, TI, CLMN, DETN
SAMPLE (SAM)-----FA, TI, CLMN, DETN
FREE-----FA, TI, CLMN, DETN
ENTER DISPLAY FORMAT (STD):kwic

```

L6 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2006 Univentio on STN

```

DETD . . . epithelium eductussemicircularis, enamel epithelium, false
epithelium,
germinal epithelium, gingival epithelium, glandular epithelium,
glomerular epithelium,
laminated epithelium, epithelium of lens, epithelium lentis,
mesenchymal epithelium,
olfactory epithelium, pavement epithelium, pigmentary epithelium,
pigmented epithelium,
protective epithelium, pseudostratified epithelium, pyramidal
epithelium, respiratory
epithelium, rod epithelium, serniniferous epithelium, sense epithelium,.
. .
gelatinous carcinoma, giant cell
carcinoma, gigantocellulare, glandular carcinoma, granulosa. cell
carcinoma, hair-matrix
carcinoma, hematoid carcinoma, hepatocellular carcinoma (also called
hepatoma, malignant
hepatoma and hepatocarcinoma), Mirthle cell carcinoma, hyaline
carcinoma, hypernephroid

```

carcinoma, infantile embryonal carcinoma, carcinoma in situ,
intraepidermal carcinoma,
intraepithelial carcinoma, Krompecher's carcinoma, Kulchitzky-cell
carcinoma, lenticular
carcinoma, . . .

characterized by an abnormal mammalian cell proliferation to be
treated by the methods of the invention include sarcomas. Sarcomas are
rare mesenchymal
neoplasms that arise in bone and soft tissues. Different types of
sarcomas are recognized and
these include: liposarcomas (including myxoid liposarcomas and
pleiomorphic
liposarcomas), leiomyosarcomas, rhabdomyosarcomas, malignant peripheral
nerve sheath
tumors (also called malignant schwannomas, neurofibrosarcomas, or
neurogenic sarcomas),
Ewing's tumors (including Ewing's sarcoma of bone,
extraskkeletal [not bone] Ewing's
io sarcoma, and primitive neuroectoderinal tumor [PNET]),
synovial sarcoma, angiosarcomias,
hemangiosarcomas, lymphangiosarcomas, Kaposi's sarcoma,
hemangioendothelioma,
fibrosarcoma, desmoid tumor (also called aggressive fibromatosis),
dermatofibrosarcoma
protuberans (DFSP), . . .

immunostimulant peptides-, insulin-like growth factor-I receptor
inhibitoi, interferon
agonists; interferons; interleukins; iobenguane; lododoxorubicin;
lporneanol, 4-; irinotecan;
iropact; irsogladine; isobengazole; isohomohalicondrin B; itasetron;
jasplakinolide;
kahalalide F; lamellarin-N triacetate; lanreotide; leinamycin;
lenograstim; lentinan sulfate;
leptolstatin; letrozole; leukemia inhibiting factor; leukocyte alpha
interferon; leuprolide +
estrogen + progesterone; leuprorelin; . . .

=> d his

(FILE 'HOME' ENTERED AT 16:12:12 ON 17 APR 2006)

FILE 'PCTFULL' ENTERED AT 16:12:30 ON 17 APR 2006

L1 171 S JASPLAKINOLIDE
L2 1574 S EWING? (2W) SARCOMA
L3 36 S L2 AND L1
L4 1 S L3 NOT PY>2001
L5 5608 S HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL
L6 1 S L5 AND L4

=> s 15 and l1

L7 37 L5 AND L1

=> s 17 not py>2001

488865 PY>2001

L8 4 L7 NOT PY>2001

=> d ibib 1-4.

L8 ANSWER 1 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2001089520 PCTFULL ED 20020826
TITLE (ENGLISH): DEHYDROASCORBIC ACID FORMULATIONS AND USES THEREOF
TITLE (FRENCH): FORMULATIONS D'ACIDE DEHYDROASCORBIQUE ET LEURS

UTILISATIONS
 INVENTOR(S): OLSON, William, C.;
 ISRAEL, Robert, J.;
 BOYD, Thomas, A.
 PATENT ASSIGNEE(S): PROGENICS PHARMACEUTICALS, INC.;
 OLSON, William, C.;
 ISRAEL, Robert, J.;
 BOYD, Thomas, A.
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2001089520	A2	20011129

DESIGNATED STATES
 W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
 MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
 SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
 DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
 CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US41407 A 20001020
 PRIORITY INFO.: US 2000-60/205,870 20000519

L8 ANSWER 2 OF 4
 ACCESSION NUMBER:
 TITLE (ENGLISH): ^
 TITLE (FRENCH):
 INVENTOR(S):
 PATENT ASSIGNEE(S):
 DOCUMENT TYPE:
 PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
 2001029235 PCTFULL ED 20020820
 TMS1 COMPOSITIONS AND METHODS OF USE
 COMPOSITIONS DU GENE TMS1 ET PROCEDES D'UTILISATION
 VERTINO, Paula, M.
 EMORY UNIVERSITY
 Patent

NUMBER	KIND	DATE
WO 2001029235	A2	20010426

DESIGNATED STATES
 W:

AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
 NL PT SE

APPLICATION INFO.: WO 2000-US28747 A 20001018
 PRIORITY INFO.: US 1999-60/159,975 19991018

L8 ANSWER 3 OF 4
 ACCESSION NUMBER:
 TITLE (ENGLISH):
 TITLE (FRENCH):
 INVENTOR(S):
 PATENT ASSIGNEE(S):
 LANGUAGE OF PUBL.:
 DOCUMENT TYPE:
 PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
 2000071135 PCTFULL ED 20020515
 ANTI-TUMOR COMPRISING BOROPROLINE COMPOUNDS
 AGENTS ANTI-TUMORALES CONTENANT DES COMPOSES DE
 BOROPROLINE
 WALLNER, Barbara, P.;
 MILLER, Glenn
 POINT THERAPEUTICS, INC.
 English
 Patent

NUMBER	KIND	DATE
WO 2000071135	A1	20001130

DESIGNATED STATES
 W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
 DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
 JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
 TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ
 TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
 ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
 GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US14505 A 20000525
PRIORITY INFO.: US 1999-60/135,861 19990525

L8 ANSWER 4 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 1999004817 PCTFULL ED 20020515
TITLE (ENGLISH): CHEMOTHERAPY SYNERGISTIC AGENT
TITLE (FRENCH): AGENT SYNERGIQUE POUR CHIMIOOTHERAPIE
INVENTOR(S): WINKELMAN, James, W.;
BRIDGES, Kenneth, R.
PATENT ASSIGNEE(S): BRIGHAM & WOMEN'S HOSPITAL, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9904817	A1	19990204

DESIGNATED STATES

W: AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

APPLICATION INFO.: WO 1998-US15052 A 19980722
PRIORITY INFO.: US 1997-60/053,696 19970725
US 1997-60/054,148 19970725

=> d kwic 4

L8 ANSWER 4 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . 91)

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin
cancer, including melanoma, Kaposi's sarcoma, basal. . .

peptides; insulin-like
growth factor-I receptor inhibitor; interferon agonists; interferons; interleukins; iobenguane;
I 0 iododoxorubicin; ipomeanol, 4-; irinotecan; iroplact; irsogladine; isobengazole;
isohomohalicondrin B; itasetron; jasplakinolide; kahalalide F; larnellarin-N triacetate;
lanreotide; leinamycin; lenograstim; lentinan sulfate; leptolstatin; letrozole; leukemia
inhibiting factor; leukocyte alpha interferon; leuprolide + estrogen + progesterone;
leuprorelin;. . .

CLMEN. . . and

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin
cancer, including melanoma, Kaposi's sarcoma, basocellular. . .

and

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin

- 24 -

cancer, including melanoma, Kaposi's. . .

and

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;

ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and

mesenchymal cells; pancreas cancer; prostate cancer'; rectal cancer; sarcomas, including

leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin

cancer, including melanoma, Kaposi's sarcoma, basocellular. . .

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

15.65

15.86

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FILE COVERS 1907 - 17 Apr 2006 VOL 144 ISS 17

FILE LAST UPDATED: 16 Apr 2006 (20060416/ED)

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<http://www.cas.org/infopolicy.html>

=> s jasplakinolide/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L10 118 L9

=> s jasplakinolide

251 JASPLAKINOLIDE
1 JASPLAKINOLIDES
L11 252 JASPLAKINOLIDE
(JASPLAKINOLIDE OR JASPLAKINOLIDES)

=> s l11 or l10
L12 279 L11 OR L10

=> s hepatocarcinoma? or mesenchymal or neuroectodermal
1409 HEPATOCARCINOMA?
11238 MESENCHYMAL
1281 NEUROECTODERMAL
L13 13848 HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL

=> s l13 and l12
L14 2 L13 AND L12

=> d ibib 1-2

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:248055 CAPLUS
DOCUMENT NUMBER: 142:352644
TITLE: RhoA/ROCK Signaling Regulates Sox9 Expression and
Actin Organization during Chondrogenesis
AUTHOR(S): Woods, Anita; Wang, Guoyan; Beier, Frank
CORPORATE SOURCE: Canadian Institutes of Health Research Group in
Skeletal Development and Remodeling, Department of
Physiology and Pharmacology, University of Western
Ontario, London, ON, N6A 5C1, Can.
SOURCE: Journal of Biological Chemistry (2005), 280(12),
11626-11634
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular
Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:816528 CAPLUS
DOCUMENT NUMBER: 140:12638
TITLE: Two CD95 tumor classes with different sensitivities to
antitumor drugs
AUTHOR(S): Algeciras-Schimmich, Alicia; Pietras, Eric M.;
Barnhart, Bryan C.; Legembre, Patrick; Vijayan,
Shrijay; Holbeck, Susan L.; Peter, Marcus E.
CORPORATE SOURCE: The Ben May Institute for Cancer Research, University
of Chicago, Chicago, IL, 60637, USA
SOURCE: Proceedings of the National Academy of Sciences of the
United States of America (2003), 100(20), 11445-11450
CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s ewing? (2W) sarcoma
1659 EWING?
36667 SARCOMA
4162 SARCOMAS
100 SARCOMATA
38298 SARCOMA

(SARCOMA OR SARCOMAS OR SARCOMATA)
L15 1277 EWING? (2W) SARCOMA

=> s l15 and l12
L16 0 L15 AND L12

=> s dolastatin 11/cn
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L18 22 L17

=> s dolastatin 11
390 DOLASTATIN
59 DOLASTATINS
404 DOLASTATIN
(DOLASTATIN OR DOLASTATINS)
916607 11
L19 22 DOLASTATIN 11
(DOLASTATIN(W)11)

=> s l19 or l18
L20 24 L19 OR L18

=> d his

(FILE 'HOME' ENTERED AT 16:12:12 ON 17 APR 2006)

FILE 'PCTFULL' ENTERED AT 16:12:30 ON 17 APR 2006

L1 171 S JASPLAKINOLIDE
L2 1574 S EWING? (2W) SARCOMA
L3 36 S L2 AND L1
L4 1 S L3 NOT PY>2001
L5 5608 S HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL
L6 1 S L5 AND L4
L7 37 S L5 AND L1
L8 4 S L7 NOT PY>2001

FILE 'CAPLUS' ENTERED AT 16:18:34 ON 17 APR 2006
S JASPLAKINOLIDE/CN

FILE 'REGISTRY' ENTERED AT 16:18:43 ON 17 APR 2006

L9 1 S JASPLAKINOLIDE/CN

FILE 'CAPLUS' ENTERED AT 16:18:43 ON 17 APR 2006

L10 118 S L9
L11 252 S JASPLAKINOLIDE
L12 279 S L11 OR L10
L13 13848 S HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL
L14 2 S L13 AND L12
L15 1277 S EWING? (2W) SARCOMA
L16 0 S L15 AND L12
S DOLASTATIN 11/CN

FILE 'REGISTRY' ENTERED AT 16:20:17 ON 17 APR 2006

L17 1 S DOLASTATIN 11/CN

FILE 'CAPLUS' ENTERED AT 16:20:18 ON 17 APR 2006

L18 22 S L17

L19 22 S DOLASTATIN 11
L20 24 S L19 OR L18

=> s 120 and 113
L21 1 L20 AND L13

=> d ibib

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:816528 CAPLUS
DOCUMENT NUMBER: 140:12638
TITLE: Two CD95 tumor classes with different sensitivities to
antitumor drugs
AUTHOR(S): Algeciras-Schimmich; Alicia; Pietras, Eric M.;
Barnhart, Bryan C.; Legembre, Patrick; Vijayan,
Shrijay; Holbeck, Susan L.; Peter, Marcus E.
CORPORATE SOURCE: The Ben May Institute for Cancer Research, University
of Chicago, Chicago, IL, 60637, USA
SOURCE: Proceedings of the National Academy of Sciences of the
United States of America (2003), 100(20), 11445-11450
CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d kwic

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AB . . . half are type II. Most of the type I cell lines fall into a
distinct class of tumor cells expressing mesenchymal-like genes,
whereas the type II cell lines preferentially express epithelium-like
markers. This suggests that type I and II tumor cells represent different
stages of carcinogenesis that resemble the epithelial-mesenchymal
transition. We then screened the National Cancer Institute database of
>42,000 compds. for reagents with patterns of growth inhibition that. .
ST soluble CD95ligand antitumor mesenchymal epithelial tumor actin
tubulin disruption; antitumor resistance CD95 signaling gene expression
carcinogenesis
IT 362-07-2, 2-Methoxyestradiol 1110-02-7, NSC 112167 2222-07-3,
Cucurbitacin I 6040-19-3, Cucurbitacin A 6766-43-4, Cucurbitacin K
33069-62-4D, Taxol, analog 82855-09-2D, Combretastatin, analog
102396-24-7D, Jasplakinolide, analog 108675-64-5 111517-68-1,
NSC 606195 141172-06-7 630400-59-8, NSC 666608 630400-60-1, NSC
658831 630400-62-3, NSC 666606
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(two CD95 tumor classes with different sensitivities to antitumor
drugs)

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.35	50.43
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-0.75

STN INTERNATIONAL LOGOFF AT 16:21:51 ON 17 APR 2006

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LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2		"Ask CAS" for self-help around the clock
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NEWS 4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS 6	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 7	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS 8	JAN 30	Saved answer limit increased
NEWS 9	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 10	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS 11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS 12	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 13	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS 14	FEB 28	TOXCENTER reloaded with enhancements
NEWS 15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS 16	MAR 01	INSPEC reloaded and enhanced
NEWS 17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 18	MAR 08	X.25 communication option no longer available after June 2006
NEWS 19	MAR 22	EMBASE is now updated on a daily basis
NEWS 20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 22	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS 23	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 24	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 25	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS EXPRESS		FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT

<http://download.cas.org/express/v8.0-Discover/>

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NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:03:09 ON 18 APR 2006

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 09:03:17 ON 18 APR 2006
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FILE COVERS 1907 - 18 Apr 2006 VOL 144 ISS 17
FILE LAST UPDATED: 17 Apr 2006 (20060417/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s cofilin
 777 COFILIN
 232 COFILINS
L1 814 COFILIN
 (COFILIN OR COFILINS)

=> s inhibit?
L2 1822517 INHIBIT?

=> s l1 (L) l2
L3 221 L1 (L) L2

=> s hepatocar? or mesenchy? or nuroectoder? or (ewing?)
 7077 HEPATOCAR?
 15151 MESENCHY?
 0 NUROECTODER?
 1659 EWING?

L4 23829 HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)

=> s 13 and 14

L5 1 L3 AND L4

=> d ibib

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:977858 CAPLUS

DOCUMENT NUMBER: 138:52333

TITLE: Pharmaceutical composition for diagnosis, prevention or treatment of a tumorous state, comprising a modulator of the actin polymerization state

INVENTOR(S): Auclair, Christian; Amselem, Valerie; Hervy, Martial; Subra, Frederic

PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De Cachan; Institut Gustave Roussy-IGR; Centre National de la Recherche Scientifique CNRS

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218
PRIORITY APPLN. INFO.:			FR 2001-7976	A 20010618
			WO 2002-FR2106	W 20020618

=> s actin

49687 ACTIN

30340 ACTINS

L6 52687 ACTIN

(ACTIN OR ACTINS)

=> s stabil?

L7 1026058 STABIL?

=> s 16 (1) 17

L8 2489 L6 (L) L7

=> d his

(FILE 'HOME' ENTERED AT 09:03:09 ON 18 APR 2006)

FILE 'CAPLUS' ENTERED AT 09:03:17 ON 18 APR 2006

L1 814 S COFILIN
L2 1822517 S INHIBIT?
L3 221 S L1 (L) L2
L4 23829 S HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)
L5 1 S L3 AND L4
L6 52687 S ACTIN
L7 1026058 S STABIL?
L8 2489 S L6 (L) L7

=> s 18 and 14

L9 19 L8 AND L4

=> s 19 not py>2002

3759065 PY>2002

L10 8 L9 NOT PY>2002

=> s 19 not py>2001

4742175 PY>2001

L11 8 L9 NOT PY>2001

=> d ibib 1-8

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:88952 CAPLUS

DOCUMENT NUMBER: 136:242165

TITLE: TGF β is required for the formation of
capillary-like structures in three-dimensional
cocultures of 10T1/2 and endothelial cells

AUTHOR(S): Darland, D. C.; D'Amore, P. A.

CORPORATE SOURCE: The Schepens Eye Research Institute and the Department
of Ophthalmology, Harvard Medical School, Boston, MA,
02114, USA

SOURCE: Angiogenesis (2001), 4(1), 11-20

CODEN: AGIOFT; ISSN: 0969-6970

PUBLISHER: Kluwer Academic Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:7412 CAPLUS

DOCUMENT NUMBER: 134:264229

TITLE: Integrin α 3 β 1 engagement disrupts
intercellular adhesion

AUTHOR(S): Kawano, Kenji; Kantak, Seema S.; Murai, Mutsuhiko;

Yao, Chung-Chen; Kramer, Randall H.

CORPORATE SOURCE: Department of Stomatology, University of California at
San Francisco, San Francisco, CA, 94143-0512, USA

SOURCE: Experimental Cell Research (2001), 262(2), 180-196

CODEN: ECREAL; ISSN: 0014-4827

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:336418 CAPLUS

DOCUMENT NUMBER: 133:87270

TITLE: The tetraspan molecule CD151, a novel constituent of

hemidesmosomes, associates with the integrin $\alpha 6 \beta 4$ and may regulate the spatial organization of hemidesmosomes

AUTHOR(S): Sterk, Lotus M. Th.; Geuijen, Cecile A. W.; Oomen, Laurant C. J. M.; Calafat, Jero; Janssen, Hans; Sonnenberg, Arnoud

CORPORATE SOURCE: Division of Cell Biology, The Netherlands Cancer Institute, Amsterdam, 1066 CX, Neth.

SOURCE: Journal of Cell Biology (2000), 149(4), 969-982
CODEN: JCLBA3; ISSN: 0021-9525

PUBLISHER: Rockefeller University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:517212 CAPLUS

DOCUMENT NUMBER: 129:170359

TITLE: Expression of human bone morphogenic protein 7 in primary rabbit periosteal cells. Potential utility in gene therapy for osteochondral repair

AUTHOR(S): Mason, J. M.; Grande, D. A.; Barcia, M.; Grant, R.; Pergolizzi, R. G.; Breitbart, A. S.

CORPORATE SOURCE: Viral Vector Lab., Dep. Res., North Shore Univ. Hosp.-New York Univ. Sch. Med., Manhasset, NY, 11030, USA

SOURCE: Gene Therapy (1998), 5(8), 1098-1104
CODEN: GETHEC; ISSN: 0969-7128

PUBLISHER: Stockton Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:269919 CAPLUS

DOCUMENT NUMBER: 126:260361

TITLE: Modulation of LDL receptor mRNA stability by phorbol esters in human liver cell culture models

AUTHOR(S): Wilson, G. M.; Roberts, E. A.; Deeley, R. G.

CORPORATE SOURCE: Department of Biochemistry and Cancer Research Laboratories, Queen's University, Kingston, ON, Can.

SOURCE: Journal of Lipid Research (1997), 38(3), 437-446
CODEN: JLPRAW; ISSN: 0022-2275

PUBLISHER: Lipid Research, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:145098 CAPLUS

DOCUMENT NUMBER: 116:145098

TITLE: Gene regulatory factors of the sea urchin embryo. I. Purification by affinity chromatography and cloning of P3A2, a novel DNA-binding protein

AUTHOR(S): Calzone, Frank J.; Hoeoeg, Christer; Teplow, David B.; Cutting, Ann E.; Zeller, Robert W.; Britten, Roy J.; Davidson, Eric H.

CORPORATE SOURCE: Div. Biol., California Inst. Technol., Pasadena, CA, 91125, USA

SOURCE: Development (Cambridge, United Kingdom) (1991), 112(1), 335-50
CODEN: DEVPED; ISSN: 0950-1991

DOCUMENT TYPE: Journal
LANGUAGE: English

L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:595544 CAPLUS
DOCUMENT NUMBER: 107:195544
TITLE: Developmental and tissue-specific regulation of
 β -tubulin gene expression in the embryo of the
sea urchin *Strongylocentrotus purpuratus*
AUTHOR(S): Harlow, Patricia; Nemer, Martin
CORPORATE SOURCE: Inst. Cancer Res., Fox Chase Cancer Cent.,
Philadelphia, PA, 19111, USA
SOURCE: Genes & Development (1987), 1(2), 147-60
CODEN: GEDEEP; ISSN: 0890-9369
DOCUMENT TYPE: Journal
LANGUAGE: English

L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:140906 CAPLUS
DOCUMENT NUMBER: 98:140906
TITLE: A yellow crescent cytoskeletal domain in ascidian eggs
and its role in early development
AUTHOR(S): Jeffery, William R.; Meier, Stephen
CORPORATE SOURCE: Dep. Zool., Univ. Texas, Austin, TX, 78712, USA
SOURCE: Developmental Biology (Orlando, FL, United States)
(1983), 96(1), 125-43
CODEN: DEBIAO; ISSN: 0012-1606
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d kwic 3

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
AB . . . and certain integrins to form large complexes at the cell
surface. CD151 is expressed by a variety of epithelia and
mesenchymal cells. We demonstrate here that in human skin CD151
is codistributed with $\alpha 3 \beta 1$ and $\alpha 6 \beta 4$ at the
basolateral surface of. . . cell surface in association with patches of
laminin-5. Focal adhesions are present at the periphery of these
clusters, connected with actin filaments, and they contain both
CD151 and $\alpha 3 \beta 1$. Transient transfection studies of PA-JEB cells
with $\beta 4$ revealed that the integrin. . . recruitment into
hemidesmosomes is regulated by the integrin $\alpha 6 \beta 4$. We suggest
that CD151 plays a role in the formation and stability of
hemidesmosomes by providing a framework for the spatial organization of
the different hemidesmosomal components.

=> s dolastatin or jasplakinolide
390 DOLASTATIN
59 DOLASTATINS
404 DOLASTATIN
(DOLASTATIN OR DOLASTATINS)
251 JASPLAKINOLIDE
1 JASPLAKINOLIDES
252 JASPLAKINOLIDE
(JASPLAKINOLIDE OR JASPLAKINOLIDES)
L12 652 DOLASTATIN OR JASPLAKINOLIDE

=> d his

(FILE 'HOME' ENTERED AT 09:03:09 ON 18 APR 2006)

FILE 'CAPLUS' ENTERED AT 09:03:17 ON 18 APR 2006

L1 814 S COFILIN
 L2 1822517 S INHIBIT?
 L3 221 S L1 (L) L2
 L4 23829 S HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)
 L5 1 S L3 AND L4
 L6 52687 S ACTIN
 L7 1026058 S STABIL?
 L8 2489 S L6 (L) L7
 L9 19 S L8 AND L4
 L10 8 S L9 NOT PY>2002
 L11 8 S L9 NOT PY>2001
 L12 652 S DOLASTATIN OR JASPLAKINOLIDE

=> s 112 and 14

L13 8 L12 AND L4

=> s 113 not py>2001

4742175 PY>2001

L14 0 L13 NOT PY>2001

=> s 113 not py>2002

3759065 PY>2002

L15 0 L13 NOT PY>2002

=> d 113 ibib 1-8

L13 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:13464 CAPLUS

DOCUMENT NUMBER: 144:101073

TITLE: therapeutic uses of kinase inhibitors, and compositions thereof

INVENTOR(S): Caligiuri, Maureen G.; Kley, Nikolai A.; Murthi, Krishna K.

PATENT ASSIGNEE(S): GPC Biotech, Inc., USA

SOURCE: PCT Int. Appl., 201 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006002119	A2	20060105	WO 2005-US21843	20050617
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2004-580868P P 20040618

OTHER SOURCE(S): MARPAT 144:101073

L13 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1290072 CAPLUS

DOCUMENT NUMBER: 144:46998

TITLE: The X-ray crystal structure of BRCA1 tandem BRCT repeat and BACH1 phosphopeptide complex and methods and compositions for antitumor drug design

INVENTOR(S): Yaffe, Michael B.; Clapperton, Julie A.; Manke, Isaac A.; Lowery, Drew M.; Ho, Timmy; Haire, Lesley F.; Smerdon, Stephen J.
 PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
 SOURCE: PCT Int. Appl., 360 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005115454	A2	20051208	WO 2005-US15981	20050509
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2004-569131P P 20040507

L13 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:409543 CAPLUS
 DOCUMENT NUMBER: 142:457053
 TITLE: Human protein IAP (inhibitor of apoptosis protein) nucleobase oligomers, including dsRNA, shRNA, and siRNA, and their use for enhancing apoptosis in cancer therapy
 INVENTOR(S): Lacasse, Eric; McManus, Daniel
 PATENT ASSIGNEE(S): Aegera Therapeutics, Inc., Can.
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042558	A1	20050512	WO 2004-CA1902	20041029
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

US 2005148535 A1 20050707 US 2004-975974 20041028
 PRIORITY APPLN. INFO.: US 2003-516192P P 20031030

L13 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:409357 CAPLUS
 DOCUMENT NUMBER: 142:457052
 TITLE: Sequences of antisense IAP (inhibitor of apoptosis

protein) oligomers and their use for treatment of
proliferative diseases with a chemotherapeutic agent
INVENTOR(S): Lacasse, Eric; McManus, Daniel; Durkin, Jon P.
PATENT ASSIGNEE(S): Aegera Therapeutics, Inc., Can.
SOURCE: PCT Int. Appl., 285 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042030	A1	20050512	WO 2004-CA1900	20041029
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005119217	A1	20050602	US 2004-975790	20041028
PRIORITY APPLN. INFO.:			US 2003-516263P	P 20031030
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L13 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:283298 CAPLUS
DOCUMENT NUMBER: 142:349042
TITLE: Combinations of chlorpromazine compounds and
antiproliferative drugs for the treatment of neoplasms
INVENTOR(S): Lee, Margaret S.; Nichols, James M.; Zhang, Yanzhen;
Keith, Curtis
PATENT ASSIGNEE(S): Combinatorx, Incorporated, USA
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005027842	A2	20050331	WO 2004-US30368	20040916
WO 2005027842	A3	20051222		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2003-504310P	P 20030918
OTHER SOURCE(S):	MARPAT 142:349042			

L13 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:248055 CAPLUS

DOCUMENT NUMBER: 142:352644
 TITLE: RhoA/ROCK Signaling Regulates Sox9 Expression and Actin Organization during Chondrogenesis
 AUTHOR(S): Woods, Anita; Wang, Guoyan; Beier, Frank
 CORPORATE SOURCE: Canadian Institutes of Health Research Group in Skeletal Development and Remodeling, Department of Physiology and Pharmacology, University of Western Ontario, London, ON, N6A 5C1, Can.
 SOURCE: Journal of Biological Chemistry (2005), 280(12), 11626-11634
 CODEN: JBCHA3; ISSN: 0021-9258
 PUBLISHER: American Society for Biochemistry and Molecular Biology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:816528 CAPLUS
 DOCUMENT NUMBER: 140:12638
 TITLE: Two CD95 tumor classes with different sensitivities to antitumor drugs
 AUTHOR(S): Algeciras-Schimmich, Alicia; Pietras, Eric M.; Barnhart, Bryan C.; Legembre, Patrick; Vijayan, Shrijay; Holbeck, Susan L.; Peter, Marcus E.
 CORPORATE SOURCE: The Ben May Institute for Cancer Research, University of Chicago, Chicago, IL, 60637, USA
 SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2003), 100(20), 11445-11450
 CODEN: PNASA6; ISSN: 0027-8424
 PUBLISHER: National Academy of Sciences
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:924095 CAPLUS
 DOCUMENT NUMBER: 136:31647
 TITLE: Toxicity typing using mesenchymal stem cells
 INVENTOR(S): Snodgrass, H. Ralph
 PATENT ASSIGNEE(S): Vistagen, Inc., USA
 SOURCE: PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001096865	A1	20011220	WO 2001-US19048	20010614
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2412769	AA	20011220	CA 2001-2412769	20010614
US 2002045179	A1	20020418	US 2001-881475	20010614
EP 1290443	A1	20030312	EP 2001-946335	20010614

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2004503255 T2 20040205 JP 2002-510943 20010614
 PRIORITY APPLN. INFO.: US 2000-211608P P 20000614
 WO 2001-US19048 W 20010614
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file pctfull		
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	ENTRY	SESSION
FULL ESTIMATED COST	51.50	51.71
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.75	-0.75

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FILE LAST UPDATED: 11 APR 2006 <20060411/UP>
 MOST RECENT UPDATE WEEK: 200614 <200614/EW>
 FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.
 SEE

<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE
 (last updated April 10, 2006) <<<

=> s dolastatin or jasplakinolide
 459 DOLASTATIN
 70 DOLASTATINS
 477 DOLASTATIN
 (DOLASTATIN OR DOLASTATINS)
 171 JASPLAKINOLIDE
 1 JASPLAKINOLIDES
 171 JASPLAKINOLIDE
 (JASPLAKINOLIDE OR JASPLAKINOLIDES)
 L16 643 DOLASTATIN OR JASPLAKINOLIDE

=> s hepatocar? or mesenchy? or nuroectoder? or (ewing?)
 770 HEPATOCAR?
 5688 MESENCHY?
 0 NUROECTODER?
 3185 EWING?
 L17 8782 HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)

=> s 117 and 116
 L18 243 L17 AND L16

=> s 118 not py>2001
 488865 PY>2001
 L19 16 L18 NOT PY>2001

=> s 116/clm
 60 DOLASTATIN/CLM
 7 JASPLAKINOLIDE/CLM
 L20 67 (DOLASTATIN/CLM OR JASPLAKINOLIDE/CLM)

=> s 120 and 119

L21 0 L20 AND L19

=> s 119 not py>2000
587352 PY>2000

L22 8 L19 NOT PY>2000

=> d ibib 1-8

L22 ANSWER 1 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000071135 PCTFULL ED 20020515
TITLE (ENGLISH): ANTI-TUMOR COMPRISING BOROPROLINE COMPOUNDS
TITLE (FRENCH): AGENTS ANTI-TUMORALES CONTENANT DES COMPOSES DE
BOROPROLINE
INVENTOR(S): WALLNER, Barbara, P.;
MILLER, Glenn
PATENT ASSIGNEE(S): POINT THERAPEUTICS, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 2000071135	A1	20001130
W:	AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG		
APPLICATION INFO.:	WO 2000-US14505	A	20000525
PRIORITY INFO.:	US 1999-60/135,861		19990525

L22 ANSWER 2 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000067802 PCTFULL ED 20020515
TITLE (ENGLISH): FATTY ACID-N-SUBSTITUTED INDOL-3-GLYOXYL-AMIDE
COMPOSITIONS AND USES THEREOF
TITLE (FRENCH): COMPOSITIONS D'ACIDES GRAS -N-SUBSTITUTED
INDOL-3-GLYOXYL-AMIDE ET LEUR UTILISATION
INVENTOR(S): BRADLEY, Matthews, O.;
SWINDELL, Charles, S.;
ANTHONY, Forrest;
WEBB, Nigel, L.;
FISHER, Mark
PATENT ASSIGNEE(S): PROTARGA, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 2000067802	A1	20001116
W:	AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG		
APPLICATION INFO.:	WO 2000-US12752	A	20000510
PRIORITY INFO.:	US 1999-60/133,292		19990510

L22 ANSWER 3 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER: 2000064946 PCTFULL ED 20020515
TITLE (ENGLISH): COMPOSITIONS AND METHODS FOR CANCER TREATMENT BY
SELECTIVELY INHIBITING VEGF
TITLE (FRENCH): COMPOSITIONS ET PROCEDES DE TRAITEMENT DU CANCER PAR
INHIBITION SELECTIVE DE VEGF
INVENTOR(S): THORPE, Philip, E.;
BREKKEN, Rolf, A.
PATENT ASSIGNEE(S): BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 2000064946	A2	20001102
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DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG
ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI
FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN
GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2000-US11367 A 20000428

PRIORITY INFO.:

US 1999-60/131,432 19990428

L22 ANSWER 4 OF 8

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

PCTFULL COPYRIGHT 2006 Univentio on STN
2000050016 PCTFULL ED 20020515
COMPOSITIONS AND METHODS FOR IMPROVING INTEGRITY OF
COMPROMISED BODY PASSAGEWAYS AND CAVITIES
COMPOSITIONS ET METHODES POUR L'AMELIORATION DE
L'INTEGRITE DE CAVITES ET DE PASSAGES CORPORELS
AFFAIBLIS

INVENTOR(S):

SIGNORE, Pierre, E.;

PATENT ASSIGNEE(S):

MACHAN, Lindsay, S.

ANGIOTECH PHARMACEUTICALS, INC.;

LANGUAGE OF PUBL.:

SIGNORE, Pierre, E.;

DOCUMENT TYPE:

MACHAN, Lindsay, S.

PATENT INFORMATION:

English

Patent

NUMBER	KIND	DATE
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WO 2000050016	A2	20000831
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DESIGNATED STATES

W:

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW
ML MR NE SN TD TG

APPLICATION INFO.:

WO 2000-CA175 A 20000223

PRIORITY INFO.:

US 1999-60/121,424 19990223

L22 ANSWER 5 OF 8

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

PCTFULL COPYRIGHT 2006 Univentio on STN
1999062510 PCTFULL ED 20020515
COMPOSITIONS COMPRISING ANTI-MICROTUBULE AGENTS FOR
TREATING OR PREVENTING INFLAMMATORY DISEASES
COMPOSITIONS RENFERMANT DES AGENTS ANTI-MICROTUBULES
POUR LE TRAITEMENT OU LA PREVENTION DE MALADIES
INFLAMMATOIRES

INVENTOR(S):

HUNTER, William, L.

PATENT ASSIGNEE(S):

ANGIOTECH PHARMACEUTICALS, INC.;

HUNTER, William, L.
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9962510	A2	19991209

DESIGNATED STATES
 W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK
 EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ
 LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO
 RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA
 ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU
 TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
 PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 1999-CA464 A 19990601
 PRIORITY INFO.: US 1998-09/088,546 19980601

L22 ANSWER 6 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 1999055343 PCTFULL ED 20020515
 TITLE (ENGLISH): CNRE BINDING FACTORS AND USES THEREOF
 TITLE (FRENCH): FACTEURS DE LIAISON CNRE ET UTILISATIONS
 CORRESPONDANTES
 INVENTOR(S): CHEN, Yuqing, E.;
 HORIUCHI, Masatsugu;
 DZAU, Victor, J.;
 TAMURA, Koichi
 PATENT ASSIGNEE(S): THE BRIGHAM AND WOMEN'S HOSPITAL, INC.;
 CHEN, Yuqing, E.;
 HORIUCHI, Masatsugu;
 DZAU, Victor, J.;
 TAMURA, Koichi

LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9955343	A1	19991104

DESIGNATED STATES
 W: CA JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
 NL PT SE

APPLICATION INFO.: WO 1999-US8502 A 19990423
 PRIORITY INFO.: US 1998-60/082,997 19980424

L22 ANSWER 7 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 1999004817 PCTFULL ED 20020515
 TITLE (ENGLISH): CHEMOTHERAPY SYNERGISTIC AGENT
 TITLE (FRENCH): AGENT SYNERGIQUE POUR CHIMIOETHERAPIE
 INVENTOR(S): WINKELMAN, James, W.;
 BRIDGES, Kenneth, R.
 PATENT ASSIGNEE(S): BRIGHAM & WOMEN'S HOSPITAL, INC.

LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9904817	A1	19990204

DESIGNATED STATES
 W: AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
 NL PT SE

APPLICATION INFO.: WO 1998-US15052 A 19980722
 PRIORITY INFO.: US 1997-60/053,696 19970725
 US 1997-60/054,148 19970725

L22 ANSWER 8 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER: 1998035554 PCTFULL ED 20020514
 TITLE (ENGLISH): COMBINED TUMOR SUPPRESSOR GENE THERAPY AND CHEMOTHERAPY
 IN THE TREATMENT OF NEOPLASMS
 TITLE (FRENCH): COMBINAISON THERAPIE GENIQUE SUPPRESSIVE DE TUMEURS -
 CHIMIOTHERAPIE UTILISEE DANS LE TRAITEMENT DE
 NEOPLASMES
 INVENTOR(S): NIELSEN, Loretta;
 HOROWITZ, Jo, Ann;
 MANEVAL, Daniel, C.;
 DEMERS, G., William;
 RYBAK, Mary, Ellen;
 RESNICK, Gene
 PATENT ASSIGNEE(S): CANJI, INC.;
 NIELSEN, Loretta;
 HOROWITZ, Jo, Ann;
 MANEVAL, Daniel, C.;
 DEMERS, G., William;
 RYBAK, Mary, Ellen;
 RESNICK, Gene
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 9835554	A2	19980820
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DESIGNATED STATES

W:

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
 ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
 GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT
 BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ
 CF CG CI CM GA GN ML MR NE SN TD TG

APPLICATION INFO.:

PRIORITY INFO.:

WO 1998-US3514	A	19980217
US 1997-8/801,285		19970218
US 1997-8/801,681		19970218
US 1997-8/801,755		19970218
US 1997-8/801,765		19970218
US 1997-60/038,065		19970218
US 1997-60/047,834		19970528

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L22 ANSWER 5 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . subtilisin, 1069C85, steganacin, combretastatin, curacin,
 estradiol,
 2-methoxyestradiol, flavanol, rotenone, griseofulvin, vinca alkaloids,
 including
 vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin,
 phornopsin A,
 ustiloxins, dolastatin 10, dolastatin 15,
 halichondrins and halistatins, spongistatins,
 cryptophycins, rhazinilam. betaine. taurine, isethionate, HO-221,
 adociasulfate-2,
 estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly
 promoting
 protein (taxol-like protein, TALP),. . .
 .
 phomopsin A (Hamel, Med. Res. Rev. 16(2): 207-23) 1, 1996), ustiloxins
 (Hamel, Med Res. Rev. 16(2): 207-23) 1, 1996), dolastatin I 0
 (Hamel, Med. Res. Rev.

16(2): 207-23) 1, 1996). dolastatin 15 (Hamel. Med Res. Rev.

16(2): 207-23) 1, 1996),
halichondrins and halistatins (Hamel, Med. Res. Rev. 16(2): 207-231,
1996),
spongistatins (Hamel, . . .

subtilisin,
1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol,
rotenone, griseofulvin, vinca alkaloids, including vinblastine and
vincristine,
maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins,
dolastatin 10,
dolastatin 15, halichondrins and halistatins, spongistatins.
cryptophycins, rhazinilam,
betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine.
monoclonal anti-
idiotypic antibodies, microtubule assembly promoting protein
(taxol-like. . .

subtilisin,
1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol,
rotenone, griseofulvin, vinca alkaloids, including vinblastine and
vincristine,
maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins,
dolastatin I 0,
dolastatin 15, halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam,
betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine.
monoclonal anti-
idiotypic antibodies, microtubule assembly promoting protein
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subtilisin,
1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol,
rotenone, griseofulvin, vinca alkaloids, including vinblastine and
vincristine,
maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins,
dolastatin 10,
dolastatin 15, halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam,
betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine,
monoclonal anti-
idiotypic antibodies, microtubule assembly promoting protein
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subtilisin,
1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol,
rotenone, griseofulvin, vinca alkaloids, including vinblastine and
vincristine,
maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins,
dolastatin 10.

dolastatin 15, halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam,
betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine,
monoclonal anti-
idiotypic antibodies, microtubule assembly promoting protein
(taxol-like. . .

subtilisin, 1069C85, steganacin,
combretastatin, curacin, estradiol, 2-methoxyestradiol, flavanol,
rotenone, griseofulvin,

vinca alkaloids. including vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin, phomopsin A. ustiloxins, dolastatin 10. dolastatin 15, halichondrins and halistatins, spongistatins, cryptophycins, rhazinilam, betaine, taurine. isethionate, HO-221, adociasulfate-2, estramustine. monoclonal anti-idiotypic antibodies. microtubule assembly promoting protein (taxol-like protein, . . .

maytansinoids and ansamitocins, rhizoxin. phomopsin A, ustiloxins, dolastatin I 0, dolastatin 15, halichondrins and halistatins, spongistatins, cryptophycins. rhazinilam, betaine, taurine, isethionate, HO-22 1, adociasulfate-2, estraniustine, monoclonal anti-idiotypic antibodies, microtubule assembly promoting protein. . .

subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol, 2-methoxyestradiol. flavanol, rotenone, griseofulvin. vinca alkaloids. including vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins. dolastatin 10.

dolastatin 15, halichondrins and halistatins, spongistatins, cryptophycins, rhazinilam, betaine. taurine. isethionate, HO-221, adociasulfate-2, estramustine, microtubule assembly promoting protein (taxol-like protein, TALP), cell swelling. .

subtilisin, 1069C85. steganacin, combretastatin, curacin. estradiol, 2-methoxyestradiol. flavanol, rotenone, griseofulvin, vinca alkaloids, including vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins, dolastatin I 0, dolastatin 15, halichondrins and halistatins, sponcristatins, cryptophycins, rhazinilam, betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly promoting protein (taxol-like. . .

subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol, 2-methoxyestradiol, flavanol, rotenone, griseofulvin. vinca alkaloids, including vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin, phomopsin A. ustiloxins, dolastatin 10, dolastatin 15, halichondrins and halistatins, spongistatins, cryptophycins, rhazinilam, betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly promoting protein (taxol-like. . .

subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol, 2-methoxyestradiol, flavanol, rotenone, griseofulvin. vinca alkaloids, including vinblastine and

vincristine,
maytansinoids and ansamitocins, rhizoxin, phomopsin A. ustiloxins,
dolastatin 10,
dolastatin 15, halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam,
betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine,
microtubule
assembly promoting protein (taxol-like protein, TALP), cell swelling.

subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol, rotenone, griseofulvin, vinca alkaloids,
including
vinblastine and vincristine; maytansinoids and ansamitocins, rhizoxin,
phomopsin A,
ustiloxins, dolastatin 10, dolastatin 15,
halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam, betaine, taurine, isethionate, HO-221,
adociasulfate-2,
estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly
promoting
protein (taxol-like protein, TALP),.

subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol, rotenone, griseofulvin, vinca alkaloids,
including
vinblastine and vincristine. maytansinoids and ansamitocins, rhizoxin,
phomopsin A,
ustiloxins, dolastatin 10, dolastatin 15,
halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam, betaine, taurine, isethionate. HO-221,
adociasulfate
estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly
promoting
protein (taxol-like protein..

subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol, rotenone, griseofulvin, vinca alkaloids,
including
vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin,
phomopsin A,
ustiloxins, dolastatin 10, dolastatin 15,
halichondrins and halistatins. spongistatins.

endpoints: (1) inhibition of
the white blood cell response (macrophages, neutrophils and T cells)
which initiates the
inflammatory cascade; (2) inhibition of mesenchymal cell
(fibroblasts, synoviocytes,
etc.) hyperproliferation that leads to the development of fibrosis and
loss of organ
function; (3) inhibition of matrix metalloproteinase.

L22 ANSWER 7 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . 91)

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal
cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal
cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
osteosarcoma; skin

cancer, including melanoma, Kaposi's sarcoma, basal. . .
 peptides; insulin-like
 growth factor-I receptor inhibitor; interferon agonists; interferons;
 interleukins; iobenguane;
 I 0 iododoxorubicin; ipomeanol, 4-; irinotecan; iroplact; irsogladine;
 isobengazole;
 isohomohalicondrin B; itasetron; jasplakinolide; kahalalide F;
 larnellarin-N triacetate;
 lanreotide; leinamycin; lenograstim; lentinan sulfate; leptolstatin;
 letrozole; leukemia
 inhibiting factor; leukocyte alpha interferon; leuprolide + estrogen +
 progesterone;
 leuprorelin;. . .

CLMEN. . . and
 lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
 cell carcinoma;
 ovarian cancer, including those arising from epithelial cells, stromal
 cells, germ cells and
 mesenchymal cells; pancreas cancer; prostate cancer; rectal
 cancer; sarcomas, including
 leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
 osteosarcoma; skin
 cancer, including melanoma, Kaposi's sarcoma, basocellular. . .

and
 lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
 cell carcinoma;
 ovarian cancer, including those arising from epithelial cells, stromal
 cells, germ cells and
 mesenchymal cells; pancreas cancer; prostate cancer; rectal
 cancer; sarcomas, including
 leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
 osteosarcoma; skin
 - 24 -
 cancer, including melanoma, Kaposi's. . .

and
 lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
 cell carcinoma;
 ovarian cancer, including those arising from epithelial cells, stromal
 cells, germ cells and
 mesenchymal cells; pancreas cancer; prostate cancer; rectal
 cancer; sarcomas, including
 leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
 osteosarcoma; skin
 cancer, including melanoma, Kaposi's sarcoma; basocellular. . .

=>

---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

12.28

63.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.75

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAPLUS F-Term thesaurus enhanced
NEWS 7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 8	NOV 20	CA/CAPLUS to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAPLUS patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAPLUS updated with revised CAS roles
NEWS 23	JAN 22	CA/CAPLUS enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26	FEB 13	CASREACT coverage to be extended
NEWS 27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 28	Feb 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 29	Feb 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 30	Feb 26	MEDLINE reloaded with enhancements
NEWS 31	Feb 26	EMBASE enhanced with Clinical Trial Number field
NEWS 32	Feb 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 33	Feb 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 34	Feb 26	CAS Registry Number crossover limit increased from 10,000

to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

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* * * * * STN Columbus * * * * *

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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=> s ESP-2 or HED-2 or Zyxin or Zyxin-2
511000 ESP
263 ESPS
511131 ESP
(ESP OR ESPS)
9071127 2
958 ESP-2
(ESP(W) 2)
397 HED
35 HEDS
428 HED
(HED OR HEDS)

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9071127 2
    5 HED-2
      (HED(W) 2)
    249 ZYXIN
    28 ZYXINS
    254 ZYXIN
      (ZYXIN OR ZYXINS)
    249 ZYXIN
    28 ZYXINS
    254 ZYXIN
      (ZYXIN OR ZYXINS)
9071127 2
    6 ZYXIN-2
      (ZYXIN(W) 2)
L1      1213 ESP-2 OR HED-2 OR ZYXIN OR ZYXIN-2

=> s cancer? or tumor? or neoplas?
    323384 CANCER?
    460516 TUMOR?
    483669 NEOPLAS?
L2      763127 CANCER? OR TUMOR? OR NEOPLAS?

=> s 11 (L) 12
L3      73 L1 (L) L2

=> s therap? or treat? or inhibit? or suppres?
    509077 THERAP?
    3519011 TREAT?
    1906473 INHIBIT?
    411937 SUPPRES?
L4      5345131 THERAP? OR TREAT? OR INHIBIT? OR SUPPRES?
    75% OF LIMIT FOR TOTAL ANSWERS REACHED

=> s 14 and 13
L5      55 L4 AND L3

=> s 15 not py>2000
    6894468 PY>2000
L6      14 L5 NOT PY>2000

=> d ibib abs 1-7

L6      ANSWER 1 OF 14  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:      2000:738475  CAPLUS
DOCUMENT NUMBER:      134:220517
TITLE:      Alterations in the gene expression profile of MCF-7
breast tumor cells in response to c-Jun
AUTHOR(S):      Rinehart-Kim, Janet; Johnston, Melissa; Birrer,
Michael; Bos, Timothy
CORPORATE SOURCE:      Department of Microbiology and Molecular Cell Biology,
Eastern Virginia Medical School, Norfolk, VA, USA
SOURCE:      International Journal of Cancer (2000), 88(2), 180-190
CODEN: IJCNAW; ISSN: 0020-7136
PUBLISHER:      Wiley-Liss, Inc.
DOCUMENT TYPE:      Journal
LANGUAGE:      English
AB      MCF7 breast tumor cells overexpressing human c-Jun exhibit a transformed
phenotype characterized not only by increased tumorigenicity but also by
enhanced motility and invasion. The cellular phenotypic response to c-Jun
overexpression is likely due, at least in part, to altered patterns of
gene expression. In order to begin to understand the complexities by
which elevated production of c-Jun alters the state of the cell, the authors
have profiled the expression of 588 different genes by comparative
hybridization. By using this approach, the authors have identified a
total of 21 upregulated or downregulated gene targets responsive to c-Jun

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overexpression. Interestingly, 8 of these genes have been previously found associated with c-Jun or AP-I activity and therefore provide internal validation for this approach to target gene discovery. The remaining 13 genes represent potential new c-Jun regulated target genes. Genomic sequence information was available for 15 of the 21 genes identified in this screen. Anal. of these genomic sequences revealed the presence of AP-I or AP-I-like sequences in 12 of the 15 genes examined. Consistent with a direct mechanism of target regulation by c-Jun, gel shift anal. of selected AP-I-containing promoter regions revealed elevated and specific binding by proteins present in nuclear exts. of c-Jun expressing MCF7 cells.

REFERENCE COUNT: 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:734436 CAPLUS

DOCUMENT NUMBER: 134:14198

TITLE: Differential display analysis of fiber-induced

carcinogenesis in rat: clue for involvement of integrin-mediated signal transduction

AUTHOR(S): Sandhu, H.; Olbruck, H.; Abel, J.; Unfried, K.

CORPORATE SOURCE: Department of Experimental Toxicology, Medical Institute of Environmental Hygiene at the Heinrich Heine University, Dusseldorf, 40225, Germany

SOURCE: Inhalation Toxicology (2000), 12(Suppl. 3), 337-343

CODEN: INHTE5; ISSN: 0895-8378

PUBLISHER: Taylor & Francis

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In this study, mRNA expression patterns during mesothelioma carcinogenesis in the peritoneal cavity were investigated. To this purpose, the mRNA expression patterns of fiber-induced mesothelioma and of fiber-treated tissues were compared to untreated tissues; resp. Suppression subtractive hybridization (SSH) and an array hybridization assay were used to perform differential display analyses. Genes found to be expressed differentially mainly represent proteins of signal transduction pathways and regulatory proteins of the cell cycle. The genes for components of the AP-1 transcription factor, c-jun, c-fos, and fra-1 (fos-related antigen-1) are upregulated in nontumorous tissue treated with asbestos. These data confirm in vivo the involvement of AP-1 expression as response to fiber treatment. In addition, osteopontin, zyxin, and integrin-linked kinase were upregulated in tumors and in treated tissues. These genes code for proteins involved in the signal transduction from the extracellular matrix to the nucleus. Using integrin-specific inhibitors, the apoptotic effects of crocidolite fibers could be suppressed significantly. From these results the authors hypothesize that direct effects of the fibers on the target tissue are mediated by interaction of the fibers with the extracellular matrix mols.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:727041 CAPLUS

DOCUMENT NUMBER: 134:81

TITLE: Preparation of novel specific aminopeptidase

inhibitors with a cyclic imide skeleton

AUTHOR(S): Takahashi, Hiroyasu; Komoda, Masato; Katsuta, Hiroki; Hashimoto, Yuichi

CORPORATE SOURCE: Institute of Molecular and Cellular Bioscience, University of Tokyo, Tokyo, 113-0032, Japan

SOURCE: Yakugaku Zasshi (2000), 120(10), 909-922

CODEN: YKKZAJ; ISSN: 0031-6903

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

AB A review with 25 refs. The studies on both structure-activity relationship study and identification of the target enzyme of novel nonpeptide aminopeptidase inhibitors with cyclic imide skeleton are reviewed. Some N-phenylphthalimide or N-phenylhomophthalimide derivative showed potent protease inhibitory activity in an assay system using human acute lymphoblastic leukemia cells, Molt-4, with alanine-4-methylcoumaryl-7-amide (ala-AMC) as a substrate. Esp ., 2-(2,6-diethylphenyl)-1,2,3,4-tetrahydroisoquinoline-1,3-dione (PIQ-22) (3) was found to be the most potent inhibitor and further it showed potent tumor-cell invasion inhibitory activity that is more effective than potent peptide aminopeptidase inhibitors such as bestatin (1) or actinonin (2). For the further investigation of this novel protease inhibitory activity, we have carried out the structural development of PIQ-22 (3) and it is assumed that tautomerism of imidobenzoylketone in cyclic imide structure may be related to the inhibitory activity. The requirement for the activity of electron donating groups such as NH₂ or OH to the condensed Ph ring in phthalimide inhibitors also supports this possibility. The target aminopeptidase of PIQ-22 was identified as puromycin-sensitive aminopeptidase (PSA), by N-terminal amino acid sequencing, and by comparison with chromatog. behavior and substrate-selectivity, and so on. Lineweaver-Burk plot showed that PSA is inhibited by PIQ-22 (3) in a noncompetitive manner while puromycin (83) and bestatin (1) inhibit PSA competitively.

L6 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:393023 CAPLUS

DOCUMENT NUMBER: 133:117982

TITLE: Zyxin, a regulator of actin filament assembly, targets the mitotic apparatus by interacting with h-warts/LATS1 tumor suppressor

AUTHOR(S): Hirota, Toru; Morisaki, Tetsuro; Nishiyama, Yasuyuki; Marumoto, Tomotoshi; Tada, Kenji; Hara, Toshihiro; Masuko, Norio; Inagaki, Masaki; Hatakeyama, Katsuyoshi; Saya, Hideyuki

CORPORATE SOURCE: Department of Tumor Genetics and Biology, Kumamoto University School of Medicine, Kumamoto, 860-0811, Japan

SOURCE: Journal of Cell Biology (2000), 149(5), 1073-1086
CODEN: JCLBA3; ISSN: 0021-9525

PUBLISHER: Rockefeller University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mitotic apparatus plays a pivotal role in dividing cells to ensure each daughter cell receives a full set of chromosomes and complement of cytoplasm during mitosis. A human homolog of the Drosophila warts tumor suppressor, h-warts/LATS1, is an evolutionarily conserved serine/threonine kinase and a dynamic component of the mitotic apparatus. We have identified an interaction of h-warts/LATS1 with zyxin, a regulator of actin filament assembly. Zyxin is a component of focal adhesion; however, during mitosis, a fraction of cytoplasmic-dispersed zyxin becomes associated with h-warts/LATS1 on the mitotic apparatus. We found that zyxin is phosphorylated specifically during mitosis, most likely by Cdc2 kinase, and that the phosphorylation regulates association with h-warts/LATS1. Furthermore, microinjection of truncated h-warts/LATS1 protein, including the zyxin-binding portion, interfered with localization of zyxin to mitotic apparatus, and the duration of mitosis of these injected cells was significantly longer than that of control cells. These findings suggest that h-warts/LATS1 and zyxin play a crucial role in controlling mitosis progression by forming a regulatory complex on mitotic apparatus

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:358265 CAPLUS

DOCUMENT NUMBER: 133:100802

TITLE: mRNA expression patterns in different stages of asbestos-induced carcinogenesis in rats

AUTHOR(S): Sandhu, H.; Dehnen, W.; Roller, M.; Abel, J.; Unfried, K.

CORPORATE SOURCE: Department of Experimental Toxicology, Medical Institute of Environmental Hygiene at the Heinrich Heine University, Dusseldorf, 40225, Germany

SOURCE: Carcinogenesis (2000), 21(5), 1023-1029

CODEN: CRNGDP; ISSN: 0143-3334

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Human malignant mesotheliomas are induced almost exclusively by fibrous dusts. The nature of interactions between fibers and target cells, and the mol. mechanisms leading to tumorigenesis, are not yet understood. Here, the mRNA expression patterns at different stages of asbestos-induced carcinogenesis in rats were monitored by suppression subtractive hybridization (SSH) and array assay. Several genes were upregulated in pre-tumorous tissues from asbestos-treated rats, in asbestos-induced tumors, and in cells treated with asbestos in vitro. The upregulation of the proto-oncogene c-myc, fra-1, and egfr in fiber-induced carcinogenesis was demonstrated at different stages of carcinogenesis. A possible role of Fra-1 as one of the dimeric proteins generating the AP-1 transcription factor was substantiated by its dose-dependent expression in mesothelial cells treated with asbestos in vitro. The upregulation of osteopontin (an extracellular matrix protein) and of zyxin and integrin-linked kinase (intracellular proteins associated with the focal adhesion contact) indicate that fibers may affect integrin-linked signal transduction and extracellular matrix proteins.

REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:85800 CAPLUS

DOCUMENT NUMBER: 132:234686

TITLE: LPP, an actin cytoskeleton protein related to zyxin, harbors a nuclear export signal and transcriptional activation capacity

AUTHOR(S): Petit, Marleen M. R.; Fradelizi, Julie; Golsteyn, Roy M.; Ayoubi, Torik A. Y.; Menichi, Bernadette; Louvard, Daniel; Van de Ven, Wim J. M.; Friederich, Evelyne

CORPORATE SOURCE: Laboratory for Molecular Oncology, Center for Human Genetics, University of Leuven and Flanders Interuniversity Institute for Biotechnology, Louvain, B-3000, Belg.

SOURCE: Molecular Biology of the Cell (2000), 11(1), 117-129

CODEN: MBCEEV; ISSN: 1059-1524

PUBLISHER: American Society for Cell Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The LPP gene is the preferred translocation partner of the HMGIC gene in a subclass of human benign mesenchymal tumors known as lipomas. Here we have characterized the LPP gene product that shares 41% of sequence identity with the focal adhesion protein zyxin. LPP localizes in focal adhesions as well as in cell-to-cell contacts, and it binds VASP, a protein implicated in the control of actin organization. In addition, LPP accumulates in the nucleus of cells upon treatment with leptomycin B, an inhibitor of the export factor CRM1. The nuclear export of LPP depends on an N-terminally located leucine-rich sequence that shares sequence homol. with well-defined nuclear export

signals. Moreover, LPP displays transcriptional activation capacity, as measured by GAL4-based assays. Altogether, these results show that the LPP protein has multifunctional domains and may serve as a scaffold upon which distinct protein complexes are assembled in the cytoplasm and in the nucleus.

REFERENCE COUNT: 69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:331285 CAPLUS

DOCUMENT NUMBER: 129:77980

TITLE: The focal adhesion phosphoprotein, VASP

AUTHOR(S): Holt, Mark R.; Critchley, David R.; Brindle, Nicholas P. J.

CORPORATE SOURCE: Department of Biochemistry, University of Leicester, Leicester, LE1 7RH, UK

SOURCE: International Journal of Biochemistry & Cell Biology (1998), 30(3), 307-311
CODEN: IJBBFU; ISSN: 1357-2725

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 14 refs. Vasodilator-stimulated phosphoprotein (VASP) is associated with focal adhesions and areas of dynamic membrane activity, where it is thought to have an important role in actin filament assembly and cell motility. VASP contains a central proline-rich sequence which recruits the G-actin binding protein profilin. Localization of VASP to the leading edge of a migrating cell can lead to local accumulation of profilin, which in turn can supply actin monomers to growing filament ends. VASP binds to the focal adhesion proteins vinculin and zyxin and this probably directs the phosphoprotein to focal adhesions and the leading edge of stimulated cells. VASP functions as a binding intermediate between profilin and focal adhesion proteins. Intracellular pathogens, including *Listeria monocytogenes*, have coat proteins which bind VASP. This is one way in which these pathogens use VASP, and other proteins from the host cell, to assemble the actin filaments they require to move around the cytoplasm of infected cells and enter neighboring cells. Understanding the role of VASP and other proteins in cell and bacterial motility is likely to lead to development of new therapeutic strategies for diseases including atherosclerosis and tumor growth, and for limiting the spread of intracellular pathogens.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs 8-14

L6 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:168956 CAPLUS

DOCUMENT NUMBER: 128:281277

TITLE: Down-regulated proteins of mesenchymal tumor cells

AUTHOR(S): Schenker, Thomas; Trueb, Beat

CORPORATE SOURCE: MEM-Institute, Division of Biology, University of Bern, Bern, CH-3010, Switz.

SOURCE: Experimental Cell Research (1998), 239(1), 161-168
CODEN: ECREAL; ISSN: 0014-4827

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB To identify proteins that are lost during the establishment of the transformed phenotype of a tumor cell, the authors have prepared a subtracted cDNA library with mRNA from normal human fibroblasts and from their matched SV40 transformed counterparts. More than 40 clones were obtained that showed a dramatic reduction in their relative expression after

oncogenic transformation. The proteins encoded by these clones could be grouped into four distinct classes: extracellular matrix proteins (fibronectin, β ig-h3, collagen VI), enzymes (collagenase, urokinase), cytoskeletal proteins (vinculin, SM22) and regulatory proteins (β -glycan, integrin-associated protein, myosin kinase, IGFBP-5). Six novel gene products were discovered during these expts., including a novel serine protease, a zyxin-like protein, an ankyrin-like protein, and a GTP-binding protein. Only four of all the transformation-sensitive cDNAs were consistently down-regulated when a variety of cell lines derived from spontaneous mesenchymal tumors was investigated: β ig-h3, collagen VI, the novel ankyrin-like protein, and IGFBP-5. It is likely that these gene products play an important role in the maintenance of the normal phenotype.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:124880 CAPLUS

DOCUMENT NUMBER: 118:124880

TITLE: Steroid derivatives with 2-propynyloxy group in position 3, useful as intermediates for radiotherapeutics, and method of their preparation
INVENTOR(S): Pouzar, Vladimir; Schneiderova, Lenka; Drasar, Pavel; Strouf, Oldrich; Havel, Miroslav

PATENT ASSIGNEE(S): Czech.

SOURCE: Czech., 6 pp.

CODEN: CZXXA9

DOCUMENT TYPE: Patent

LANGUAGE: Czech

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 267444	B1	19900212	CS 1988-5354	19880728
PRIORITY APPLN. INFO.:			CS 1988-5354	19880728

OTHER SOURCE(S): MARPAT 118:124880

AB Steroids HC.tplbond.CCH2OR [I; R = 5-cholesten-3 β -yl, 20-oxo-5-pregnen-3 β -yl, 17-oxo-5-androsten-3 β -yl, 17 β -methoxymethoxy-5-androsten-3 β -yl] were prepared as intermediates for steroidal [10B]-dicarbadodecaborane derivs., used for neutron-capture therapy of hormone-dependent tumors. I were prepared in 6-32% yield by reaction of corresponding alcs. ROH with 1-5 mol equiv HC.tplbond.CCH2Br in an organic solvent (especially 2:1 C₆H₆/MeCN), in the presence of a quaternary ammonium salt such as Bu₄NHSO₄ [mol ratio 1:(1-4) vs. ROH] and aqueous 10-19M NaOH at 10-70°.

L6 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:124878 CAPLUS

DOCUMENT NUMBER: 118:124878

TITLE: Steroid derivatives with 2-propynyloxy group in position 20, useful as intermediates for radiotherapeutics, and method of their preparation
INVENTOR(S): Pouzar, Vladimir; Schneiderova, Lenka; Drasar, Pavel; Strouf, Oldrich; Havel, Miroslav

PATENT ASSIGNEE(S): Czech.

SOURCE: Czech., 5 pp.

CODEN: CZXXA9

DOCUMENT TYPE: Patent

LANGUAGE: Czech

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CS 267443	B1	19900212	CS 1988-5353	19880728
PRIORITY APPLN. INFO.:			CS 1988-5353	19880728
OTHER SOURCE(S):	MARPAT 118:124878			
AB	Steroids HC.tplbond.CCH2OR [I; R = 3 β -methoxymethoxy-21-nor-5-pregnen-20-yl, 3-oxo-21-nor-4-pregnen-20-yl] were prepared as intermediates for steroidal [10B]-dicarbadodecaborane derivs., used for neutron-capture therapy of hormone-dependent tumors. I were prepared in 10-32% yield by reaction of corresponding alcs. ROH with 1-5 mol equiv HC.tplbond.CCH2Br in an organic solvent (especially 2:1 C6H6/MeCN), in the presence of a quaternary ammonium salt such as Bu4NHSO4 [mol ratio 1:(1-4) vs. ROH] and aqueous 10-19M NaOH at 10-70°.			

L6 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:124876 CAPLUS

DOCUMENT NUMBER: 118:124876

TITLE: Steroid derivatives with 2-propynyloxy group in position 17, useful as intermediates for radiotherapeutics, and method of their preparation

INVENTOR(S): Pouzar, Vladimir; Schneiderova, Lenka; Drasar, Pavel; Strouf, Oldrich; Havel, Miroslav

PATENT ASSIGNEE(S): Czech.

SOURCE: Czech., 6 pp.
CODEN: CZXXA9

DOCUMENT TYPE: Patent

LANGUAGE: Czech

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CS 267442	B1	19900212	CS 1988-5351	19880728
PRIORITY APPLN. INFO.:			CS 1988-5351	19880728
OTHER SOURCE(S):	MARPAT 118:124876			
AB	Steroids HC.tplbond.CCH2OR [I; R = 3-(2-tetrahydropyranyloxy)-1,3,5(10)-estratrien-17 β -yl, 3 β -methoxymethoxy-5-androsten-17 β - or -17 α -yl, 3 β -(2-tetrahydropyranyloxy)-5-androsten-17 β -yl, 3-oxo-4-androsten-17 β -yl] were prepared as intermediates for steroidal [10B]-dicarbadodecaborane derivs., used for neutron-capture therapy of hormone-dependent tumors. I were prepared in 8-32% yield by reaction of corresponding alcs. ROH with 1-5 mol equiv HC.tplbond.CCH2Br in an organic solvent (especially 2:1 C6H6/MeCN), in the presence of a quaternary ammonium salt such as Bu4NHSO4 [mol ratio 1:(1-4) vs. ROH] and aqueous 10-19M NaOH at 10-70°.			

L6 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:159979 CAPLUS

DOCUMENT NUMBER: 114:159979

TITLE: Potential new photosensitizers for photodynamic therapy

AUTHOR(S): Ho, Yau Kwan; Pandey, Ravindra K.; Sumlin, Adam B.; Missert, Joseph R.; Bellnier, David A.; Dougherty, Thomas J.

CORPORATE SOURCE: Oncol. Found. Buffalo, Buffalo, NY, 14203, USA

SOURCE: Proceedings of SPIE-The International Society for Optical Engineering (1990), 1203(Proc. Photodyn. Ther.: Mech. 2, 1990), 293-300
CODEN: PSISDG; ISSN: 0277-786X

DOCUMENT TYPE: Journal

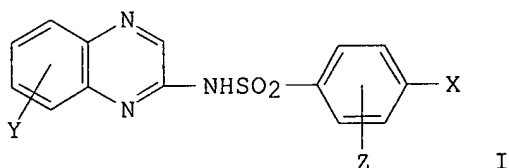
LANGUAGE: English

AB The production and tumor photosensitizing effects of 3 new photosensitizers, i.e., bis(dimethylhydroxypropylsiloxy)silicon naphthalocyanine, bis(dimethylacetoxypyrpylsiloxy)silicon naphthalocyanine, and especially 2-(1-O-hexyl)ethyl-desvinylmethylpheophorbide a, were examined

L6 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:169038 CAPLUS
DOCUMENT NUMBER: 106:169038
TITLE: Quinoxaline derivatives as neoplasm inhibitors
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62000426	A	19870106	JP 1986-146277	19860624
EP 215200	A2	19870325	EP 1986-108295	19860618
EP 215200	A3	19890802		
EP 215200	B1	19920909		
R: CH, DE, FR, GB, IT, LI, NL				
CA 1267604	A1	19900410	CA 1986-511938	19860619
US 4931433	A	19900605	US 1987-45256	19870501
PRIORITY APPLN. INFO.:			US 1985-748070	A 19850624
			US 1986-858092	B1 19860429
OTHER SOURCE(S):		MARPAT 106:169038		
GI				



AB Quinoxaline derivs. I (Y = NO₂, OMe, H, Cl, Br, OH; X = NO₂, NH₂, acylamido, NH(CH₂)_nCOOH, NHCH₂SO₃H; Z = H or halo), especially 2-sulfonamido-5-chloroquinoxaline (II), are neoplasm inhibitors as determined by the Sheemaker method (1985). In vivo, II (200-449 mg/kg/day) prolonged the life span of mice transplanted with human LOX melanin-deficient melanocarcinoma.

L6 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:405881 CAPLUS
DOCUMENT NUMBER: 99:5881
TITLE: Isoprenylamine derivatives and their acid addition salts
INVENTOR(S): Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; Takahashi, Toshihiro
PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan
SOURCE: Ger. Offen., 27 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3218822	A1	19821202	DE 1982-3218822	19820518
DE 3218822	C2	19901018		
JP 57192340	A	19821126	JP 1981-76155	19810518

JP 01028736	B	19890605		
US 4568765	A	19860204	US 1982-377577	19820512
GB 2098613	A	19821124	GB 1982-14242	19820517
GB 2098613	B	19850109		
FR 2505824	A1	19821119	FR 1982-8704	19820518
FR 2505824	B1	19860425		

PRIORITY APPLN. INFO.: JP 1981-76155 A 19810518

OTHER SOURCE(S): CASREACT 99:5881; MARPAT 99:5881

AB $H(CH_2CRMeCHR_1CH_2)_n[NR_2(CH_2)_p]qNHR_2$ ($n = 2-10$; $p = 2$ or 3 ; $q \geq 2$, especially 2 or 3; R , $R_1 = H$, H or bond; $R_2 = H$, Bz , $PhCH_2$ or lower alkyl or acyl) were prepared. Thus decaprenyl bromide reacted with triethylenetetramine to give, via the tetrakis(trifluoroacetyl) derivative, $H(CH_2CMe:CHCH_2)_{10}(NHCH_2CH_2)_3NH_2$, which provided 87.9% protection against Vaccinia infections and gave increased survival times in 5/6 of cases against KN7-8 tumor cells in mice.

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=> s ESP-2 or HED-2 or Zyxin or Zyxin-2

381 ESP

19 ESPS

388 ESP

(ESP OR ESPS)

380284 2

2 ESP-2

(ESP(W) 2)

32 HED

2 HEDS

33 HED

(HED OR HEDS)

380284 2

0 HED-2

(HED(W) 2)

10 ZYXIN

10 ZYXIN

380284 2

0 ZYXIN-2

(ZYXIN(W) 2)

L7 12 ESP-2 OR HED-2 OR ZYXIN OR ZYXIN-2

=> s cancer? or tumor? or neoplas?

17132 CANCER?

14172 TUMOR?

2482 NEOPLAS?
L8 27419 CANCER? OR TUMOR? OR NEOPLAS?

=> s 17 and 18
L9 2 L7 AND L8

=> d ibib 1-2

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ACCESSION NUMBER: 2001:26596 DISSABS Order Number: AAI9988630
TITLE: Characterization of TRIP6, a new zyxin family
member
AUTHOR: Yi, Jinseong [Ph.D.]; Beckerle, Mary C. [adviser]
CORPORATE SOURCE: The University of Utah (0240)
SOURCE: Dissertation Abstracts International, (2000) Vol. 61, No.
9B, p. 4521. Order No.: AAI9988630. 160 pages.
ISBN: 0-599-95237-7.
DOCUMENT TYPE: Dissertation
FILE SEGMENT: DAI
LANGUAGE: English

L9 ANSWER 2 OF 2 DISSABS COPYRIGHT (C) 2007 ProQuest Information and
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ACCESSION NUMBER: 2000:35209 DISSABS Order Number: AAI9956453
TITLE: Regulation of the cytoskeleton in human microvascular
endothelial cells
AUTHOR: Zimmerman, Matthew John [Ph.D.]; Feramisco, James R.
[adviser]
CORPORATE SOURCE: University of California, San Diego (0033)
SOURCE: Dissertation Abstracts International, (2000) Vol. 61, No.
1B, p. 52. Order No.: AAI9956453. 139 pages.
DOCUMENT TYPE: Dissertation
FILE SEGMENT: DAI
LANGUAGE: English

=> s therap? or treat? or inhibit? or suppres?
38515 THERAP?
163294 TREAT?
67152 INHIBIT?
23440 SUPPRES?
L10 248978 THERAP? OR TREAT? OR INHIBIT? OR SUPPRES?

=> s 19 and 110
L11 1 L9 AND L10

=> d ibib abs kwic

L11 ANSWER 1 OF 1 DISSABS COPYRIGHT (C) 2007 ProQuest Information and
Learning Company; All Rights Reserved on STN
ACCESSION NUMBER: 2000:35209 DISSABS Order Number: AAI9956453
TITLE: Regulation of the cytoskeleton in human microvascular
endothelial cells
AUTHOR: Zimmerman, Matthew John [Ph.D.]; Feramisco, James R.
[adviser]
CORPORATE SOURCE: University of California, San Diego (0033)
SOURCE: Dissertation Abstracts International, (2000) Vol. 61, No.
1B, p. 52. Order No.: AAI9956453. 139 pages.
DOCUMENT TYPE: Dissertation
FILE SEGMENT: DAI
LANGUAGE: English

AB Angiogenesis is required for the growth of solid tumors.
VEGF, by virtue of an expression pattern of receptors restricted mainly to
the endothelium, is a critical regulator of angiogenesis in vivo.

Representational difference analysis was utilized to clone genes that were upregulated in endothelial cells 2 hours after treatment with VEGF. Two genes, fra-1 and TR3, both themselves regulators of transcription, were found to be upregulated 3.1 and 1.4 fold respectively. A third gene product, zyxin, was found to localize with focal adhesions and stress fibers after

VEGF treatment, in contrast to the effects of another angiogenic factor, 12-tetradecanoylphorbol 13-acetate (TPA), which caused loss of zyxin localization to these structures. Loss of zyxin at stress fibers and focal adhesions over time and dose of TPA treatment correlated with a reduced electrophoretic mobility of zyxin on polyacrylamide gels which was determined to be due to phosphorylation of the protein. Both effects were blocked by inhibition of PKC activity. Inhibition of MEK activity, however, inhibited zyxin phosphorylation downstream of TPA treatment, but not loss of zyxin at focal adhesions and stress fibers, indicating that zyxin phosphorylation could be decoupled from the cytoskeletal rearrangements induced by TPA. Introduction of inactivated cdc42 into HMvECs paralleled the effect of VEGF increased localization of zyxin to actin stress fibers and focal adhesions, an effect which may be mediated by the inactivation of the downstream effector PAK. Inactivation of PAK alone and in combination with activated cdc42 increased stress fiber formation in HMvECs, supporting the hypothesis that PAK mediates stress fiber breakdown. However, PAK inactivation is also predicted to inhibit LIM-kinase, and inhibition of LIM-kinase by independent means inhibited, not cooperated with, the phenotype induced by activated cdc42. These apparently contradictory results may be explained by alternate emerging regulatory pathways.

AB Angiogenesis is required for the growth of solid tumors. VEGF, by virtue of an expression pattern of receptors restricted mainly to the endothelium, is a critical regulator of angiogenesis in vivo. Representational difference analysis was utilized to clone genes that were upregulated in endothelial cells 2 hours after treatment with VEGF. Two genes, fra-1 and TR3, both themselves regulators of transcription, were found to be upregulated 3.1 and 1.4 fold respectively. A third gene product, zyxin, was found to localize with focal adhesions and stress fibers after

VEGF treatment, in contrast to the effects of another angiogenic factor, 12-tetradecanoylphorbol 13-acetate (TPA), which caused loss of zyxin localization to these structures. Loss of zyxin at stress fibers and focal adhesions over time and dose of TPA treatment correlated with a reduced electrophoretic mobility of zyxin on polyacrylamide gels which was determined to be due to phosphorylation of the protein. Both effects were blocked by inhibition of PKC activity. Inhibition of MEK activity, however, inhibited zyxin phosphorylation downstream of TPA treatment, but not loss of zyxin at focal adhesions and stress fibers, indicating that zyxin phosphorylation could be decoupled from the cytoskeletal rearrangements induced by TPA. Introduction of inactivated cdc42 into HMvECs paralleled the effect of VEGF increased localization of zyxin to actin stress fibers and focal adhesions, an effect which may be mediated by the inactivation of the downstream effector. . . fiber formation in HMvECs, supporting the hypothesis that PAK mediates stress fiber breakdown. However, PAK inactivation is also predicted to inhibit LIM-kinase, and inhibition of LIM-kinase by independent means inhibited, not cooperated with, the phenotype induced by activated cdc42. These apparently contradictory results may be explained by alternate emerging regulatory. . .

=>

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 Alexandria, Virginia 22313-1450
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Bib Data Sheet

CONFIRMATION NO. 2270

SERIAL NUMBER 10740,266	FILING OR 371(c) DATE 12/18/2003 RULE	CLASS 435	GROUP ART UNIT 1642	ATTORNEY DOCKET NO. 1417-03
APPLICANTS Christian Auclair, Paris, FRANCE; <i>bf</i> Valerie Amsellem, Paris, FRANCE; <i>bf</i> Martial Hervy, Paris, FRANCE; <i>bf</i> Frederic Subra, Paris, FRANCE; <i>bf</i>				
** CONTINUING DATA ***** This application is a CON of PCT/FR02/02106 06/18/2002 <i>bf</i> ** FOREIGN APPLICATIONS ***** FRANCE 01/07976 06/18/2001 <i>bf</i>				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** SMALL ENTITY ** ** 04/22/2004				
Foreign Priority claimed <input checked="" type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after met Verified and Acknowledged <i>Allowance</i> Examiner's Signature <i>[Signature]</i> Initials <i>[Initials]</i>		STATE OR COUNTRY FRANCE	SHEETS DRAWING 17	TOTAL CLAIMS 47
INDEPENDENT CLAIMS 9				
ADDRESS 35811				
TITLE Pharmaceutical composition for the diagnosis, prevention or treatment of a tumoral pathology comprising an agent modulating the polymerization state of actin				
FILING FEE RECEIVED 886	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	

WEST Search History

DATE: Tuesday, March 06, 2007

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
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<input type="checkbox"/>	L39	L38 and l37	4
<input type="checkbox"/>	L38	l35.ab. or l35.clm.	16
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<input type="checkbox"/>	L36	L35 and (cancer\$ or tumor\$ or neoplas\$)	207
<input type="checkbox"/>	L35	ESP-2 or HED-2 or Zyxin or Zyxin-2	220
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<input type="checkbox"/>	L33	L3 and L21	79
<input type="checkbox"/>	L32	L31 and L26	4
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<input type="checkbox"/>	L22	L21 and L20	25
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<input type="checkbox"/>	L18	L17 and L14	5
<input type="checkbox"/>	L17	actin	30701
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<input type="checkbox"/>	L15	L14 and L13	3
<input type="checkbox"/>	L14	(auclair or amsellem or hervy or subra).in.	397
<input type="checkbox"/>	L13	L12 or L11 or L10	25539
<input type="checkbox"/>	L12	(435/7.23)! [CCLS]	3836
<input type="checkbox"/>	L11	(424/93.21)! [CCLS]	2119
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<input type="checkbox"/>	L3	jasplakinolide	276
<input type="checkbox"/>	L2	L1 and ewing\$	1
<input type="checkbox"/>	L1	dolastatin 11	13

END OF SEARCH HISTORY

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=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	6.33	78.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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NEWS 3 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
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NEWS 4 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 5 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC
NEWS 6 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 7 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 8 JAN 30 Saved answer limit increased
NEWS 9 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist
visualization results
NEWS 10 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 11 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 12 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 13 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 14 FEB 28 TOXCENTER reloaded with enhancements
NEWS 15 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
property data
NEWS 16 MAR 01 INSPEC reloaded and enhanced
NEWS 17 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 18 MAR 08 X.25 communication option no longer available after June 2006
NEWS 19 MAR 22 EMBASE is now updated on a daily basis
NEWS 20 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 21 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC
thesaurus added in PCTFULL
NEWS 22 APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS 23 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 24 APR 12 Improved structure highlighting in FQHIT and QHIT display
in MARPAT
NEWS 25 APR 12 Derwent World Patents Index to be reloaded and enhanced during
second quarter; strategies may be affected

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
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AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
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FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

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FULL ESTIMATED COST

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DICTIONARY FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1

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*
* The CA roles and document type information have been removed from *
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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> E "DOLASTATIN"/CN 25

E1 1 DOLASETRON MESYLATE/CN

E2 1 DOLASTANE/CN

E3 0 --> DOLASTATIN/CN

E4 1 DOLASTATIN 1/CN

E5 1 DOLASTATIN 10/CN

E6 1 DOLASTATIN 11/CN

E7 1 DOLASTATIN 12/CN

E8 1 DOLASTATIN 13/CN

E9 1 DOLASTATIN 13,

4-(3-AMINO-3,4-DIHYDRO-2-OXO-A-(PHENYLMETHYL)-1(2H)-PYRIDINEACETIC ACID)-/CN

E10 1 DOLASTATIN 13,

4-(3-AMINO-3,4-DIHYDRO-6-HYDROXY-2-OXO-A-(PHENYLMETHYL)-1(2H)-PYRIDINEACETIC ACID)-/CN

E11 1 DOLASTATIN 14/CN

E12 1 DOLASTATIN 15/CN

E13 1 DOLASTATIN 16/CN
 E14 1 DOLASTATIN 17/CN
 E15 1 DOLASTATIN 17 (DOLABELLA AURICULARIA)/CN
 E16 1 DOLASTATIN 18/CN
 E17 1 DOLASTATIN 19/CN
 E18 1 DOLASTATIN 2/CN
 E19 1 DOLASTATIN 3/CN
 E20 1 DOLASTATIN 4/CN
 E21 1 DOLASTATIN 5/CN
 E22 1 DOLASTATIN 6/CN
 E23 1 DOLASTATIN 7/CN
 E24 1 DOLASTATIN 8/CN
 E25 1 DOLASTATIN 9/CN

=> S E6

L1 1 "DOLASTATIN 11"/CN

=> DIS L1 1 SQIDE

THE ESTIMATED COST FOR THIS REQUEST IS 6.36 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 111517-68-1 REGISTRY
 CN Cyclo[L-alanyl-(2S,3R)-3-amino-2-methylpentanoyl-(2S,3S)-2-hydroxy-3-methylpentanoylglycyl-N-methyl-L-leucylglycyl-N-methyl-L-valyl-N,O-dimethyl-L-tyrosyl-(4S)-4-amino-2,2-dimethyl-3-oxopentanoyl] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Oxa-4,7,10,13,16,19,24,27-octaazacyclotriacontane, cyclic peptide deriv.

CN Dolastatin 11

OTHER NAMES:

CN NSC 606195

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 8

NTE modified (modifications unspecified)

type	location	description
bridge	Gly-1 - Oaa-8	covalent bridge
uncommon	Oaa-6 -	-
uncommon	Oaa-8 -	-

SEQ 1 GLGVYXAX

MF C50 H80 N8 O12

SR CA

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, NAPRALERT, TOXCENTER, USPATFULL

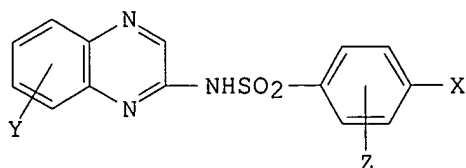
(*File contains numerically searchable property data)

DT.CA CAplus document type: Dissertation; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

22 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
22 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> DIS L1 1 SQIDE

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=> s actin

49670 ACTIN

30327 ACTINS

L2 52669 ACTIN

(ACTIN OR ACTINS)

=> s cofilin

775 COFILIN

232 COFILINS

L3 812 COFILIN

(COFILIN OR COFILINS)

=> s antag? or inhibit?

281605 ANTAG?

1822219 INHIBIT?

L4 1968300 ANTAG? OR INHIBIT?

=> s l4 (l) l3

L5 222 L4 (L) L3

=> s ewing?

L6 1659 EWING?

=> s 16 and 15
L7 1 L6 AND L5

=> d ibib

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:977858 CAPLUS
DOCUMENT NUMBER: 138:52333
TITLE: Pharmaceutical composition for diagnosis, prevention
or treatment of a tumorous state, comprising a
modulator of the actin polymerization state
INVENTOR(S): Auclair, Christian; Amsellem, Valerie; Hervy, Martial;
Subra, Frederic
PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De
Cachan; Institut Gustave Roussy-IGR; Centre National
de la Recherche Scientifique CNRS
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218
PRIORITY APPLN. INFO.:			FR 2001-7976	A 20010618
			WO 2002-FR2106	W 20020618

=> s 11
L8 22 L1

=> s 18 and 16
L9 0 L8 AND L6

=> s zyxin
219 ZYXIN
28 ZYXINS
L10 224 ZYXIN
(ZYXIN OR ZYXINS)

=> s 110 and 16
L11 3 L10 AND L6

=> d ibib 1-3

L11 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:184733 CAPLUS
DOCUMENT NUMBER: 142:371546
TITLE: The actin cytoskeleton-associated protein
zyxin acts as a tumor suppressor in
Ewing tumor cells
AUTHOR(S): Amsellem, Valerie; Kryszke, Marie-Helene; Hervy,
Martial; Subra, Frederic; Athman, Rafika; Leh, Herve;
Brachet-Ducos, Corinne; Auclair, Christian
CORPORATE SOURCE: CNRS UMR 8113, Laboratoire de Biotechnologie et
Pharmacologie genetique appliquee, Ecole Normale
Superieure de Cachan, Cachan, 94230, Fr.
SOURCE: Experimental Cell Research (2005), 304(2), 443-456
CODEN: ECREAL; ISSN: 0014-4827
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:583223 CAPLUS
DOCUMENT NUMBER: 141:188806
TITLE: Molecular mechanisms of CD99-induced
caspase-independent cell death and cell-cell adhesion
in Ewing's sarcoma cells: actin and
zyxin as key intracellular mediators
AUTHOR(S): Cerisano, Vanessa; Aalto, Yan; Perdichizzi, Stefania;
Bernard, Ghislaine; Manara, Maria Cristina; Benini,
Stefania; Cenacchi, Giovanna; Preda, Paola; Lattanzi,
Giovanna; Nagy, Balint; Knuutila, Sakari; Colombo,
Mario Paolo; Bernard, Alain; Picci, Piero; Scotlandi,
Katia
CORPORATE SOURCE: Laboratorio di Ricerca Oncologica, Istituti Ortopedici
Rizzoli, Bologna, 40136, Italy
SOURCE: Oncogene (2004), 23(33), 5664-5674
CODEN: ONCNES; ISSN: 0950-9232
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:977858 CAPLUS
DOCUMENT NUMBER: 138:52333
TITLE: Pharmaceutical composition for diagnosis, prevention
or treatment of a tumorous state, comprising a
modulator of the actin polymerization state
INVENTOR(S): Auclair, Christian; Amsellem, Valerie; Hervy, Martial;
Subra, Frederic
PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De
Cachan; Institut Gustave Roussy-IGR; Centre National
de la Recherche Scientifique CNRS
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
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FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
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JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218
PRIORITY APPLN. INFO.:			FR 2001-7976	A 20010618
			WO 2002-FR2106	W 20020618

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(FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006)

FILE 'REGISTRY' ENTERED AT 14:41:55 ON 17 APR 2006
E "DOLASTATIN"/CN 25

L1 1 S E6

FILE 'CAPLUS' ENTERED AT 14:42:50 ON 17 APR 2006

L2 52669 S ACTIN
L3 812 S COFILIN
L4 1968300 S ANTAG? OR INHIBIT?
L5 222 S L4 (L) L3
L6 1659 S EWING?
L7 1 S L6 AND L5
L8 22 S L1
L9 0 S L8 AND L6
L10 224 S ZYXIN
L11 3 S L10 AND L6

=> s 13 and 16

L12 6 L3 AND L6

=> s 112 and 14

L13 4 L12 AND L4

=> d ibib 1-4

L13 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:248644 CAPLUS

DOCUMENT NUMBER: 142:274057

TITLE: Sequences of human schizophrenia related genes and use for diagnosis, prognosis and therapy

INVENTOR(S): Liew, Choong-chin

PATENT ASSIGNEE(S): Chondrogene Limited, Can.

SOURCE: U.S. Pat. Appl. Publ., 156 pp., Cont.-in-part of U.S. Ser. No. 802,875.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 47
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241727	A1	20041202	US 2004-812731	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009
US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004241727	A1	20041202	US 2004-812731	20040330
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
			US 2000-477148	B1 20000104
			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2004-812731	A 20040330

L13 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:248643 CAPLUS
DOCUMENT NUMBER: 142:274056
TITLE: Sequences of human schizophrenia related genes and use
for diagnosis, prognosis and therapy
INVENTOR(S): Liew, Choong-Chin
PATENT ASSIGNEE(S): Chondrogene Limited, Can.
SOURCE: U.S. Pat. Appl. Publ., 156 pp., Cont.-in-part of U.S.
Ser. No. 802,875.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 47
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241727	A1	20041202	US 2004-812731	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009
US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
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US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004241727	A1	20041202	US 2004-812731	20040330
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
			US 2000-477148	B1 20000104
			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2004-812731	A 20040330

L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:60754 CAPLUS
Correction of: 2004:1036571
DOCUMENT NUMBER: 142:233342
Correction of: 142:16836
TITLE: Sequences of human schizophrenia related genes and use
for diagnosis, prognosis and therapy
INVENTOR(S): Liew, Choong-Chin
PATENT ASSIGNEE(S): Chondrogene Limited, Can.
SOURCE: U.S. Pat. Appl. Publ., 156 pp., Cont.-in-part of U.S.
Ser. No. 802,875.
CODEN: USXXCO

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 29
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241727	A1	20041202	US 2004-812731	20040330
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US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004265869	A1	20041230	US 2004-812716	20040330
US 2005208519	A1	20050922	US 2004-989191	20041115
PRIORITY APPLN. INFO.:			US 1999-115125P	P 19990106
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			US 2002-268730	A2 20021009
			US 2003-601518	A2 20030620
			US 2004-802875	A2 20040312
			US 2004-812731	A2 20040330
			WO 2004-US20836	A2 20040621

L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:977858 CAPLUS
 DOCUMENT NUMBER: 138:52333
 TITLE: Pharmaceutical composition for diagnosis, prevention or treatment of a tumorous state, comprising a modulator of the actin polymerization state
 INVENTOR(S): Auclair, Christian; Amsellem, Valerie; Hervy, Martial; Subra, Frederic
 PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De Cachan; Institut Gustave Roussy-IGR; Centre National de la Recherche Scientifique CNRS
 SOURCE: PCT Int. Appl., 68 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218

PRIORITY APPLN. INFO.:

FR 2001-7976
WO 2002-FR2106

A 20010618
W 20020618

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(FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006)

FILE 'REGISTRY' ENTERED AT 14:41:55 ON 17 APR 2006

E "DOLASTATIN"/CN 25

L1 1 S E6

FILE 'CAPLUS' ENTERED AT 14:42:50 ON 17 APR 2006

L2 52669 S ACTIN
L3 812 S COFILIN
L4 1968300 S ANTAG? OR INHIBIT?
L5 222 S L4 (L) L3
L6 1659 S EWING?
L7 1 S L6 AND L5
L8 22 S L1
L9 0 S L8 AND L6
L10 224 S ZYXIN
L11 3 S L10 AND L6
L12 6 S L3 AND L6
L13 4 S L12 AND L4

=> s phosphoinositol?

L14 989 PHOSPHOINOSITOL?

=> s l14 and l6

L15 0 L14 AND L6

=> s phosphotidylinositol

96 PHOSPHOTIDYLINOSITOL
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(PHOSPHOTIDYLINOSITOL OR PHOSPHOTIDYLINOSITOLS)

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=> file pctfull

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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FILE 'PCTFULL' ENTERED AT 14:49:15 ON 17 APR 2006

COPYRIGHT (C) 2006 Univentio

FILE LAST UPDATED: 11 APR 2006 <20060411/UP>

MOST RECENT UPDATE WEEK: 200614 <200614/EW>

FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.

SEE

<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE

(last updated April 10, 2006) <<<

=> s cofilin

179 COFILIN
12 COFILINS

L18 188 COFILIN
(COFILIN OR COFILINS)

=> s ewing?

L19 3185 EWING?

=>

=> s 119 and 118

L20 19 L19 AND L18

=> s antag? or inhibit?

53720 ANTAG?

189862 INHIBIT?

L21 198141 ANTAG? OR INHIBIT?

=> s 120 and 121

L22 19 L20 AND L21

=> s 122 not py>2001

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L23 4 L22 NOT PY>2001

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L23 ANSWER 1 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER: 2001055168 PCTFULL ED 20020827

TITLE (ENGLISH): NUCLEIC ACIDS, PROTEINS AND ANTIBODIES

TITLE (FRENCH): ACIDES NUCLEIQUES, PROTEINES, ET ANTICORPS

INVENTOR(S): ROSEN, Craig, A.;
BARASH, Steven, C.;
RUBEN, Steven, M.

PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
ROSEN, Craig, A.;
BARASH, Steven, C.;
RUBEN, Steven, M.

DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 2001055168	A1	20010802
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DESIGNATED STATES

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MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
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CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:

PRIORITY INFO.:

WO 2001-US1331	A	20010117
US 2000-60/179,065		20000131
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US 2000-60/184,664		20000224
US 2000-60/186,350		20000302
US 2000-60/189,874		20000316
US 2000-60/190,076		20000317
US 2000-60/198,123		20000418
US 2000-60/205,515		20000519
US 2000-60/209,467		20000607
US 2000-60/214,886		20000628
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US 2000-60/220,963	20000726
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US 2000-60/225,267	20000814
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US 2000-60/236,802	20001002
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US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L23 ANSWER 2 OF 4

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PCTFULL COPYRIGHT 2006 Univentio on STN

1999051766 PCTFULL ED 20020515

METHODS FOR PRODUCING LIBRARIES OF EXPRESSIBLE GENE SEQUENCES

METHODES DE PRODUCTION DE BANQUES DE SEQUENCES DE GENES EXPRIMABLES

FERNANDEZ, Joseph, Manuel;

PATENT ASSIGNEE(S):	HEYMAN, John, Alastair; HOEFFLER, James, Paul; MARKS-HULL, Heather, Lynn; SINDICI, Michelle, Lynn INVITROGEN; FERNANDEZ, Joseph, Manuel; HEYMAN, John, Alastair; HOEFFLER, James, Paul; MARKS-HULL, Heather, Lynn; SINDICI, Michelle, Lynn									
LANGUAGE OF PUBL.:	English									
DOCUMENT TYPE:	Patent									
PATENT INFORMATION:										
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NUMBER	KIND	DATE								

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APPLICATION INFO.:	WO 1999-US7270 A 19990402									
PRIORITY INFO.:	US 1998-09/054,936 19980403									
L23 ANSWER 3 OF 4	PCTFULL COPYRIGHT 2006 Univentio on STN									
ACCESSION NUMBER:	1999051620 PCTFULL ED 20020515									
TITLE (ENGLISH):	LIBRARIES OF EXPRESSIBLE GENE SEQUENCES									
TITLE (FRENCH):	BANQUES DE SEQUENCES DE GENES POUVANT ETRE EXPRIMEES									
INVENTOR(S):	FERNANDEZ, Joseph, Manuel; HEYMAN, John, Alastair; HOEFFLER, James, Paul									
PATENT ASSIGNEE(S):	INVITROGEN									
LANGUAGE OF PUBL.:	English									
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L23 ANSWER 4 OF 4	PCTFULL COPYRIGHT 2006 Univentio on STN									
ACCESSION NUMBER:	1998041648 PCTFULL ED 20020514									
TITLE (ENGLISH):	TARGET GENES FOR ALLELE-SPECIFIC DRUGS									
TITLE (FRENCH):	GENES CIBLES POUR MEDICAMENTS SPECIFIQUES D'ALLELES									
INVENTOR(S):	HOUSMAN, David; LEDLEY, Fred, D.; STANTON, Vincent, P., Jr.									
PATENT ASSIGNEE(S):	VARIAGENICS, INC.; HOUSMAN, David; LEDLEY, Fred, D.; STANTON, Vincent, P., Jr.									
LANGUAGE OF PUBL.:	English									
DOCUMENT TYPE:	Patent									
PATENT INFORMATION:										
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NUMBER	KIND	DATE								

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APPLICATION INFO.:	WO 1998-US5419 A 19980319
PRIORITY INFO.:	US 1997-60/041,057 19970320

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L23 ANSWER 2 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD U3 52.36 60
snoRNP associated 55 kDa
protein
GI H-DO0096 Transtyretin (prealbumin) 16.28 20
C4 H-DO0408 Cytochrome P450 IIIA7 (P450- 55.44 64
HFLa)
M302 E7 H-DO0682 cofilin 18.37 30
M383 G2 H-DO0726 ferrochelataase 46.64 50.OkDa
M383 C3 H-DO0760 proteasome, subunit HO 25.85 34.OkDa
M305 B4 H-DO0761 proteasome, subunit HC5 26.62. . .
. . .
enoyl-Coenzyme A hydratase, 32.01 58
short chain, mitochondrial
E1 H-DI4446 Human HFREP- I mRNA for 34.43 40
unknown protein, complete cds
167-14 H-DI4497 H.sapiens (Ewing's sarcoma cell 51.44 64
line) mRNA encoding open
reading frame
M266 D2 H-DI4520 basic transcription element- 24.2 33.OkDa
binding protein 2
M318 D2 H-DI4658 hypothetical. . .
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42.79 48
M298 C2 H-JO2611 apolipoprotein D 20.9 3 I.OkDa
M266 C4 H-JO2683 ADP/ATP carrier protein 32.89 36
M383 H2 H-JO2685 plasminogen activator inhibitor, 45.76
50.OkDa
placenta
167-3 H-JO2853 casein kinase 11, alpha chain 43.08 50
E3 H-JO2854 Human 20-kDa myosin light 19.03 31
chain (MLC-2) mRNA, complete
cds
M248. . .
. . .
transaldolase 37.18 39.OkDa
M423 C4 H-LI9593 Interleukin 8 receptor, beta 39.71 4 1.0kDa
G I H-LI9686 Homo sapiens macrophage 12.76 1 3
migration inhibitory factor (MIF)
gene, complete cds
G2 H-LI9739 metallopanstimulin 1 9.35 32
M302 E3 H-LI9871 activating transcription factor 3 20.02 36.OkDa
167-86 H-L20422 14 3 protein eta 34 1 3
M440 B2 H-L20492 Human gamma-glutamyl 24.86 35.OkDa
transpeptidase mRNA, complete
cds
M315 BI H-L20688 GDP-dissociation inhibitor 22.22 32
protein rhoA
M271 H3 H-L20941 ferritin, heavy polypeptide. 20.24 32
FERRITIN IS AN
INTRACELLULAR,
MOLECULE THAT STORES
IRON IN A SOLUBLE,
NONTXIC, READILY
AVAILABLE FORM.

transforming protein rhoC,
Aplysia ras-related homolog 9
M236 E3 H-L25085 Sec61 complex, beta subunit, 10.67 19
PROTEIN TRANSLOCATION
TN THE ENDOPLASMIC
RETICULUM
167-85 H-1,25610 cyclin-dependent kinase inhibitor 32
B2 H-L25610 cyclin-dependent kinase inhibitor 18.110 40
1
M297 H2 H-1,26232 cathepsin A/phospholipid transfer 54.34 64.OkDa
protein
167-4 H-1,26318 stress-activated protein kinase 52 42.31
JNKI
M428 F1 H-1,27586 Human TR4 orphan. . .
. .
E2 H-MI9713 tropomyosin, alpha, muscle 31.35 4I.OkDa
167-79 H-MI9722 proto-oncogene tyrosine-protein 64 58.26
kinase FGR
M248 HI H-M20560 Annexin III (lipocortin III), 35.64 37
INHIBITOR OF
PHOSPHOLIPASE A2
M235 HI H-M20681 GLUCOSE TRANSPORTER 54.67 50
TYPE 3, BRAIN
167-29 H-M21616 beta platelet-derived growth 121 121.7
factor receptor precursor
M305 A3 H-M21812. . .
. .
palmitoylated membrane protein, 51.37 5 I.OkDa
erythrocyte, 55 kDa
M302 C7 H-M65292 complement factor H-related 36.41 50
protein (GB:M65292)
D3 H-M68516 Human protein C inhibitor gene, 44.77 54
complete cds
167-27 H-M68520 cell division protein kinase 2 38 32.85
M236 D5 H-M68867 Cellular retinoic acid-binding 15.29 19.OkDa
protein 2,. . .
. .
A1 H-PO 197 S-adenosylmethionine synthetase 42.46
2 (metX)
M365 BI H-PO203 hypothetical protein 10.12
M365 C1 H-PO209 hypothetical protein 49.61
M365 DI H-PO213 glucose inhibited division protein 68.42
(gidA)
M381 E1 H-PO218 hypothetical protein 20.24
M365 E1 H-PO221 nifLJ-Iike protein 35.97
M365 F1 H-PO227 outer m mbrane protein (omp5). . . C2 P[3 -]]
ribosomal protein S1 (rps 1)
M366 D2 H-PO403 phenylalanyl-tRNA synthetase, 36.19
alpha subunit (pheS)
M366 E2 H-PO404 protein kinase C inhibitor 11.55
(SP:PI6436)
M366 F2 H-PO405 nifS-like protein 48.51
M366 G2 H-PO406 hypothetical protein 21.67
M366 H2 H-PO407 biotin sulfoxide reductase (bisC) 87.67
M381 DI H-PO409. . .
. .
alanine racemase, biosynthetic 41.58
(a
M371 D6 H-PO942 D-alanine glycine perinease 49.61
(dagA)
M371 E6 H-PO943 D-arnino acid dehydrogenase 45.21
(dadA)
M371 F6 H-PO944 translation initiation inhibitor, 13.86
putative
M371 G6 H-PO946 conserved hypothetical integral 54.67

membrane protein
 M371 H6 H-PO947 hypothetical protein 13.31
 M371 A7 H-PO949 conserved hypothetical secreted 16.61
 protein
 M371 B7. . . .
 .
 factor Ile, 48.360
 alpha subunit
 M302 D7 H-S69022 myosin, light polypeptide 2, 18.26 3 1
 ventricular
 H5 H-S69272 cytoplasmic antiproteinase=38 41.47 50
 kda intracellular serine proteinase
 inhibitor [human, placenta,
 mRNA, 1465 nt]
 DI H-S72043 GIF=growth inhibitory factor 7.59 19
 [human, brain, Genornic, 2015 nt]
 M266 B3 H-S74221 cytokine lK factor 17.93 36.OkDa
 DI H-S74445 cellular retinoic acid-binding 15.18 23
 protein. . . small nuclear ribonucleoprotein, 13.97 17.OkDa
 Sm D3
 M311 D4 H-UI6660 enoyl-Coenzyme A hydratase-like 36.19 38
 protein, peroxisomal
 M302 H4 H-UI7074 cyclin-dependent kinase 6 18.59 29
 inhibitor p 1 8
 M306 A2 H-UI7195 A-kinase anchor protein I 00 72.05 100
 [AKAPI00*]
 DI -UI7280 Steroidogenic acute regulatory 31.46 35
 protein
 M316 171 H-UI8291. . . .
 .
 29.15 38.OkDa
 factor TAF1132 mRNA, complete
 cds
 M424 H3 H-U22662 Human nuclear orphan receptor 49.28 49.OkDa
 LXR-alpha mRNA, complete cds
 M271 D2 H-U24074 killer cell inhibitory receptor 37.62 43
 [KIR], Homo sapiens natural
 killer-associated transcript 3
 (NKAT3), complete cds.
 .
 30
 gamma
 M416 D3 H-U26403 Human receptor tyrosine kinase 25.19 30.OkDa
 ligand LERK-7 precursor
 (EPLG7) mRNA, complete cds
 M317 E2 H-U27143 human protein kinase C inhibitor- 13.900
 17.OkDa
 I cDNA
 E5 H-U28249 Human II kd protein mRNA, 12.32 12
 complete cds
 F4 H-U28386 Human nuclear localization 58.3 54
 sequence receptor hSRP. . . phosphatase 2A, 56.65 55.OkDa
 regulatory subunit B' alpha- I
 E1 H-U37529 Human substance P beta-PPT-A 14.3 22
 mRNA, complete cds
 M305 H5 H-U37547 apoptosis inhibitor 68.09 64
 M424 D5 H-U38480 Human retinoid X receptor- 51.04 61.OkDa
 gamma mRNA, complete cds
 M270 F4 H-U38810 Human mab-21 cell fate-
 determining protein. . . mRNA
 M298 E4 H-U39945 human adenylate kinase 2 (adk2) 26.3633 38.OkDa
 mRNA
 166-38 H-U40282 human integrin-linked kinase 55 49.68
 (ILK) mRNA
 169-65 H-U40343 human CDK inhibitor p I 9INK4d 1 8 18. 33

mRNA

E2 H-U40705 Homo sapiens telomeric repeat 48.4 52
binding factor (TRF I) mRNA,
complete cds
166-50 H-U40989. . . E2 H-U47677 Human transcription factor E2F 1
48.18 53.OkDa
(E2FI) gene, promoter and
m421 H I H-U48707 Human protein phosphatase- 1 18.92 36.OkDa
inhibitor mRNA, complete cds
M302 B7 H-U49070 peptidyl-prolyl isomerase PIN I 18.04 28.OkDa
C1 H-U49188 Human placenta (Diff33) mRNA, 54.45 70
complete cds
M485 H2. . .
46.97 60.OkDa
phosphodiesterase (PDE4Q
mRNA, 4C-426 isoform,
complete cds
M306 F3 H-U66867 ubiquitin-conjugating enzyme E21 17.49 28
[UBE2I]
M416 E2 H-U681 11 Human protein phosphatase 22.66 37.OkDa
inhibitor 2 (PPP I R2) gene
F2 H-U68382 Mannosidase, alpha B, lysosomal 35.64 36
G2 H-U69141 Glutaryl-Coenzyme A 48.29 56
dehydrogenase
B2 H-U70660 Human copper. . . (HAHI) mRNA, complete
cds
M297 B2 H-U71374 peroxisomal membrane protein 40.15 40.OkDa
(Pexl3p)
M306 A3 H-U75272 progastricsin [PGC] 42.79 49.OkDa
A2 H-U75285 Homo sapiens apoptosis inhibitor 15.73 25
survivin gene, complete cds
B2 H-U77456 Human nucleosome assembly 41.36 50
protein 2 mRNA, complete cds
C2 H-U78294 Homo sapiens 15S-lipoxygenase 74.47. . . and VIIIA)
M302 B3 H-XO2751 proto-oncogene N-ras 20.9 25.OkDa
D3 H-XO2812 Human mRNA for transforming 43.12 50
growth factor-beta (TGF-beta)
M302 CI H-XO3124 tissue inhibitor of 22.88 T6.OkDa
metalloproteinase I
M362 BI H-XO3342 ribosomal protein L32 14.96 24.OkDa
M235 A2 H-XO3484 human mRNA for raf oncogene 71.350 73.OkDa
M318. . .
basic protein, 23 kDa 22.44 30.OkDa
M318 GI H-X57025 insulin-like growth factor 1 16.94 1 8
M305 F5 H-X57348 protein kinase C inhibitor 27.39 35.OkDa
M236 D6 H-X57351 interferon-induced protein 1-813 14.63 24
H3 H-X57352 interferon-induced protein 1-8U 14.74 38
M305 B6 H-X58079 S- I 00. . . 49
E2 H-X59357 Epstein-Barr virus small RNA- 14.19 36
associated protein
M236 D4 H-X59417 macropain, iota subunit, THE 27.17 36
INTERACTION OF CALPONIN
WITH ACTIN INHIBITS
ACTOMYOSIN MG-ATPASE
ACTIVITY
M271 H4 H-X59618 ribonucleotide reductase, small 42.9 46
subunit
M250 G3 H-X59710 CAAT-box DNA-binding protein, 22.66 34
subunit B, CCAAT-BINDING
TRANSCRIPTION FACTOR
SUBUNIT A [Homo. . .
H+ transporting, 42.13 58.OkDa

subunit C, vacuolar
M236 C3 H-X69392 ribosomal protein L26 16.06 29
B3 H-X69532 H.sapiens gene for inter-alpha- 100.32 98
trypsin inhibitor heavy chain HI,
exons 1-3
M236 F5 H-X69654 ribosomal protein S26 12.76 18
M421 C8 H-X70218 Protein phosphatase 4 (formerly 33.88
X), catalytic subunit
M266. . .

M235 BI H-X72841 Human retinoblastoma-binding 46.86 52.OkDa
protein (RbAp46) mRNA,
complete cds, IEF 7442
(GB:X72841)
217-25 H-X73428 DNA-binding protein inhibitor 20 17.08
ID-3
M305 B5 H-X73459 signal recognition particle, 15.07 20
subunit 14
M250 D6 H-X73460 ribosomal protein L3, isoform 2, 44.44 50.OkDa
COMPONENT OF. . .

H-YO0291 Human hap mRNA encoding a 49.39 59.OkDa
DNA-binding hormone receptor
M386 HI H-YO0345 polyadenylate-binding protein 69.74 70.OkDa
M469 A2 H-YO0630 Plasminogen activator inhibitor, 45.76
46.OkDa
type II (arginine-serpin)
M305 E1 H-YO0711 lactate dehydrogenase B 36.85 38.OkDa
H2 H-YO0764 ubiquinol/cytochrome c reductase 10.12 33
hinge protein
F5 H-YO7848 H.sapiens. . .

=> d kwic 4

L23 ANSWER 4 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN
ABEN . . .
loss of one of these alleles in cancer cells due to loss of
heterozygosity (LOH) and (2) the
development of inhibitors with high specificity for the single
remaining alternative allele of the
essential gene retained by the tumor cell after LOH.. . .
ABFR . . . perte de l'un de ces alleles dans des cellules cancéreuses, due a
la perte
d'hétérozygotie (LOH); et (2) développer des inhibiteurs
présentant une spécificité élevée pour
l'allele distinct restant du gene essentiel retenu par la cellule
tumorale apres LOH. Des categories. . .

DETD Specifically, this invention is concerned with target genes for drugs
that are useful
for treating such diseases by providing allele-specific
inhibition of essential cell
functions.

strategy for the development of anticancer agents having a high
therapeutic
232/116
index is described in Housman, International Application PCT/US/94 08473
and
Housman, INHIBITORS OF ALTERNATIVE ALLELES OF GENES
ENCODING PROTEINS VITAL FOR CELL VIABILITY OR CELL GROWTH
AS A BASIS FOR CANCER THERAPEUTIC AGENTS, U.S.. . . which undergo
loss of
heterozygosity in a cancer. Treatment of a cancer in an individual who

is heterozygous with an allele specific inhibitor targeted to the single allele of an essential gene which is present in a cancer will inhibit the growth of the cancer cells. In contrast, the alternative allele present in non-cancerous cells (which have not undergone loss of heterozygosity). . . .

(3) identification of the absence of one of these alleles in cancer cells due to LOH and (4) development of specific inhibitors of the single remaining allele of the essential gene retained by the cancer cell, but not the alternative allele.

SUMMARY OF THE INVENTION

The utilization of inhibitors of alternative alleles, such as in the strategy described in Housman, supra, requires the provision of suitable target genes in order to identify such inhibitors and to implement corresponding diagnostic or therapeutic methods. Thus, as described below, the present invention identifies useful groups of genes which provide. . . .

In each disease, the administration of such an inhibitor would have cytotoxic or antiproliferative effects on the abnormally proliferating cells that exhibited LOH and contained only the sensitive allele of the. . . .

In addition, it was found that specific inhibitors of alternative alleles of an essential gene would be useful in managing transplantation in instances where the alleles in a donor bone marrow differ from the alleles in the recipient. For example, administration of an inhibitor of an allele that was present in a donor bone marrow but not the recipient could be used to treat graft-versus-host. . . .

Alternatively, an inhibitor of an allele that is present in the recipient but not the donor bone marrow could be used to enhance engraftment by preferentially creating space in the recipient bone marrow for the graft without inhibiting proliferation of the engrafted donor marrow.

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The term target gene refers to a gene where the gene, its RNA transcript, or its protein product are specifically inhibited or potentially inhibited by a drug. In references herein to genes or alleles, the term encoding refers to the entire gene sequence, including both coding. . . .

of alternative variances at a single variant site, or a combination of several different variances at different sites. In this invention, inhibitors targeted to a specific allelic form or subset of the allelic forms of a gene can be targeted to

a specific variance. . . .

dysplastic epithelium of lung, breast, cervix, or other tissues. Drugs used in treating cancer and other non-cancer proliferative disorders commonly aim to inhibit the proliferation of cells and are commonly referred to as antiproliferative agents.

particular sequence variance. Also preferably, these terms refer to loss of heterozygosity of a particular sequence variance that is recognized by an inhibitor that will inhibit one allele of the gene present in normal cells of the individual, but not an alternative allele.

the individual clones. The alleles subject to LOH may vary from one clone to another. Therefore treatment of these conditions preferably utilizes

inhibitors of at least two allelic forms. Thus, methods relating to such disorders can utilize alternative alleles of one gene and/or allelic. . . .

of LOH in certain locations, for example segments of chromosomes 7,8,10,11,13,16, and 18 in prostate cancer, administration of an allele-specific drug that inhibits one allele that is within such a region, in a patient who is heterozygous for alternative forms of the gene, would. . . .

genes, and provides, as examples, specific genes within those categories which are found to be suitable as targets for allele specific inhibitors, in particular for killing cancer cells or reducing the proliferation of cells in cancer or noncancer proliferative disorders. Thus, the present invention. . . . more variant positions, indicates that the gene is a useful potential target gene in this invention for the identification of allele specific inhibitors and in other aspects of the invention.

those skilled in the art) identifying the gene and providing a known sequence) which can be used for identifying allele specific inhibitors and for use in other aspects of this invention. Preferably the gene has the LOH frequency and at least one sequence variance. . . .

vital for cell viability or growth, or essential for cell survival and proliferation have the same meaning. A gene is essential if

inhibition of the function of such a gene or gene product will kill the cell or inhibit its growth as determined by methods known in the art. Growth inhibition can be monitored as a reduction or preferably a cessation of cell proliferation.

the affected gene, genetic disruption of the gene by homologous recombination or other methods in organisms ranging from yeast to mice,

inhibition of the gene
by antisense oligonucleotides or ribozymes, and identification of the
target of
known cytotoxic, drugs and other inhibitors. As further
discussed below, the
essentiality of a gene can depend on the conditions to which the cell is
exposed.

entity is absent or present at low levels, the
gene product is essential. In another example, the administration of a
drug that

inhibits one or more functions within the cell can cause other
functions to be
essential that are not essential in the absence. . . .

Identification of one or more sequence variances in
that gene and/or in the corresponding gene products allows screening or
design of
such inhibitors for potential treatment.

sequence variance, and therefore of individuals heterozygous for such
variances, indicates that the gene can be used for the identification of
inhibitors

targeting allelic forms of the gene which have a particular variance or
variances
and in the other aspects of this invention.

gene is a potential target. The
target gene, its RNA transcript or protein product can then be used as
targets for
allele-specific inhibitors for treating the proliferative
disorder or other uses as
described in the aspects of this invention.

of the
population are heterozygous for that gene provides genes which are
particularly
likely to be useful target genes for allele specific inhibition
in this invention.

or 50% of cases of such a disorder
indicates that the gene is useful as a potential target for identifying
allele specific

inhibitors for the treatment of proliferative disorders and in
other aspects of this

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invention.

more preferably at least 30%, and most
preferably at least 40% are heterozygous in a specific population that
may be
treated with inhibitors to treat cancer or other proliferative
disorder in that
population. Once a specific variance is identified in a certain gene,
the. . . .

In the context of this invention, an alternative allele, or other
reference to an
appropriate target for the inhibitors of this invention refers
to a form of a gene
which differs in base sequence from at least one other allele or. . . .
no
phenotypic effect on the physical condition of an individual having that
variance
until the variance is targeted by an allele specific inhibitor

In connection with allele specific inhibitors and the methods of this invention, the terms allelic form or alternative form of the target gene or sequence variance within the. . . either or both of the gene or a product of that gene including the RNA transcript or protein product. Thus, a particular

inhibitor may act in an allele specific manner (which will often be variance specific) at any of those levels and preferably the inhibitor is targeted to a particular sequence variance of the specific allelic form.

the classes described above in genes that are essential for cell survival or proliferation that can be the targets for allele-specific inhibitors for the treatment of cancer or noncancer proliferative disorders.

This invention provides inhibitors which are specific for at least one, but not all, allelic forms of a gene that encodes a gene product essential to cell growth or cell viability, for genes belonging to the specified categories of genes. The inhibitor may be active on the gene or gene product including the RNA transcript, protein product, or modifications thereof. Exposure to the inhibitor inhibits proliferation or kills cells which have undergone LOH of genes that are not inhibited by the drug and contain only an allelic form of the essential gene, its RNA transcript, or its protein product against which the inhibitor is targeted. Normal cells which contain two alternative alleles of the target genes, one of which is not inhibited by the specific inhibitor, are spared from the toxic effects of the inhibitor because the remaining activity of the allele which is not inhibited by the inhibitor is adequate to permit continued cell viability and growth. This differential effect of the

inhibitor on cells with LOH of a targeted gene (e.g., a cancer cell) and normal cells accounts for the high therapeutic index of the inhibitors of this invention for the treatment of cancer or non-cancerous, proliferative disorders characterized by LOH. Toxicity of the inhibitor to normal cells is therefore low, compared to most currently available anticancer and antiproliferative agents.

indicated above and described in the Detailed Description of the Preferred Embodiments, in a first aspect the invention provides methods for identifying inhibitors potentially useful for treatment of a proliferative disorder, e.g., cancer. Such inhibitors are active on

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specific allelic forms of target genes as identified herein. The method involves determining at least two allelic forms of such a gene encoding an

essential gene product, and testing a potential allele specific inhibitor to determine whether the potential inhibitor is active on, e.g., inhibits expression of, at least one of the allelic forms, but not all of those forms. If the potential inhibitor inhibits only a subset of the allelic forms of the particular essential gene, then it is an allele specific inhibitor. Preferably the difference in activity of the inhibitor for different allelic forms is between allelic forms which have a sequence variance at a particular site.

In many, or even most, cases an allele specific inhibitor discriminates between two allelic forms due to a particular single sequence variance between the allelic forms of the target gene. For example, . . . not affect the cleavage. In the Detailed Description of the Invention specific examples of proteins, small molecules, and oligonucleotides providing allele specific inhibition based on single sequence variances are described. Thus, in preferred embodiments an allele specific inhibitor discriminates between two allelic forms by discriminating a single sequence variance. As previously indicated, inhibitors can be targeted to either the nucleic acid or a polypeptide (where a nucleotide change results in an amino acid change).

In particular embodiments, the allele specific inhibitor will recognize more than one linked sequence variances within a specific allele.

An allele specific inhibitor or variance specific inhibitor is a drug or inhibitor that inhibits the activity of one alternative allele of a gene to a greater degree than at least one other alternative allele. The difference in activity is commonly determined by the dose or level of a drug required to achieve a quantitative degree of inhibition. A commonly used measure of activity is the IC50 or concentration of the drug required to achieve a 50% reduction in the measured activity of the target gene. Preferably an allele specific inhibitor will have at least twice the activity on the target allelic form than on a non-target allelic form, more preferably at least . . . most preferably at least 100 times. This can also be expressed as the sensitivities of the different allelic forms to the inhibitor.

it is equivalent to state that the target allelic form is most preferably at least 100 times as sensitive to the inhibitor as a non-target allelic form. The activity of an inhibitor can be measured either in vitro or in vivo, in

assay systems that reconstitute the in vivo system, or in systems incorporating selected elements of the complete biological system. For use in inhibiting cells containing only the target allelic form rather than cells containing at least one non-targeted allelic form, the difference in activity. . . .

In a related aspect, the invention provides inhibitors potentially useful for tumor, e.g. . cancer treatment, or treatment of other proliferative disorders. Such

inhibitors are active on a specific allele of a gene which has at least two different alleles encoding an essential gene product in one of the target gene categories above. Such inhibitors can, for example, be identified by the above screening methods.

In a related aspect, the invention provides methods for producing inhibitors active on such specific allelic forms of belonging to one of the above categories genes by 232/116 identifying a gene encoding an essential. . . product which has alternative allelic forms in a non-tumor cell and which undergoes LOH in a tumor cell, screening to identify an inhibitor which is active on at least one but less than all of the alleles of the gene, and synthesizing the inhibitor in an amount sufficient to produce a therapeutic effect when administered to a patient suffering from a tumor in which tumor cells have only the allele on which the inhibitor is active.

In the context of this invention, the term active on an allelic form or allele specific inhibitor or specific for an allelic form indicates that the relevant

inhibitor inhibits an allele having a particular sequence to a greater extent (preferably > 2x) than an allele having a sequence which differs in a particular manner. Thus, for alleles for which a particular base position is identified, the

inhibitor has a higher degree of inhibition when a certain base is in the specified position than when at least one different base is in that position. This. . . means that for substitution at a particular base position, at least two of the possible allelic forms differ in sensitivity to an inhibitor. Usually, however, for a specific sequence variance site, the site will be occupied by one of only two bases.

Further, if an inhibitor acts at the polypeptide level, and any of three bases may be present at a particular position in a coding sequence but only one of the substitutions results in an amino acid change, then the activity of the inhibitor

would be expected to be the same for the two forms producing the same amino acid sequence but different for the form. . .

The term less active indicates that the inhibitor will inhibit growth of or kill a cell containing only the allelic form of a gene on which the inhibitor is more active at concentrations at which it does not significantly inhibit the growth of or kill a cell containing only an allelic form on which the inhibitor is less active.

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The term drug or inhibitor refers to a compound or molecule which, when brought into contact with a gene, its RNA transcript, or its gene product which the compound inhibits, reduces the rate of a cellular process, reduces the level of a cellular constituent, or reduces the level of activity of. . . the term to those skilled in the art and not limiting. Thus, the term generally indicates that a compound has an inhibitory effect on a cell or process, as understood by those skilled in the art. Examples of inhibitory effects are a reduction in expression of a gene product, reduction in the rate of catalytic activity of an enzyme, and reduction. . . formation or the amount of an essential cellular component. The blocking or reduction need not be complete, in most cases, for the inhibitor to have useful activity. Thus, in the present invention, inhibitors are targeted to genes, their RNA transcript, or their protein product that are essential for cell viability or proliferation. Such inhibitors would have the effect of inhibiting essential functions, leading to loss of cell viability or inhibition of cell proliferation. In preferred embodiments, such inhibitors cause cell death or stop cell proliferation. In preferred embodiments of this invention, inhibitors specifically include a molecule or compound capable of inhibiting one or more, but not all, alleles of genes, their RNA transcript, or their protein product that are essential for cell survival or proliferation. The terms inhibitor of a gene or inhibitor of an allele as used herein include inhibitors acting on the level of the gene, its gene product, its RNA transcript, its protein product, or modifications thereof and is explicitly not limited to those inhibitors or drugs that work on the gene sequence itself.

Several types of inhibitors are generally recognized in the art. A competitive

inhibitor is one that binds to the same site on the gene, its RNA transcript or gene product as a natural substrate. . . is required for the action of the gene or gene product, and competitively prevents the binding of that

substrate. An

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66 allosteric inhibitor is one that binds to a gene or gene product and alters the activity of the gene or gene product without preventing binding of a substrate or cofactor. Inhibition can also involve reducing the amount of the gene, RNA transcript, or its protein product, and thus the total amount of activity from the gene in the cell. Such inhibition can occur by action at any of a large number of different process points, including for example by inhibiting transcription or translation, or by inducing the elimination of the gene, its RNA transcript, or its protein product where elimination may involve. . . of the target or egress or export from the compartment in which it is active and the process of excretion or export. Inhibition can also be achieved by modifying the structure of the target, interfering with secondary modifications, or interfering with cofactors or other ancillary components which are required for its activity. Inhibitors can be comprised of small molecules or polymeric organic compounds including oligopeptides or oligonucleotides.

The term active on a gene or targeted to a gene indicates that an inhibitor exerts its inhibitory effect in a manner which is preferentially linked with the characteristic properties of a gene, its RNA transcript or its gene. . . RNA with other cellular constituents (RNA, protein, cofactors, substrates, etc.) required for activity. Thus, in general these terms indicate that the inhibitor acts on the gene, its RNA transcript, its protein product, its gene product, or modifications thereof, or on a reaction or reaction. . . .

from one of the above categories has undergone loss of heterozygosity. The method involves administering a therapeutic amount of an allele specific inhibitor of such an essential gene to a patient whose normal somatic cells are heterozygous for that gene but whose tumor cells contain only a single allelic form of the gene. The inhibitor is active on the specific allele of the gene present in the tumor cells.

cancer. The method involves administering to a patient having a precancerous condition or an early stage cancer or cancers an allele specific

inhibitor targeted to an allele of an essential gene for which the normal somatic cells of the patient are heterozygous and which. . . the precancerous condition are not clonal from a single cell, the method involves subsequently administering to the patient a second allele specific inhibitor in an amount sufficient to inhibit and preferably kill cells with LOH in which an allele

not targeted by the first inhibitor is the only remaining allele of the gene. In most cases, the second allele specific inhibitor will target the alternative allele of the gene targeted by the first inhibitor. However, the second inhibitor can also target an allele of a second essential gene which has undergone LOH. The second gene may have undergone LOH in. . . affected the first gene due to their proximity on a chromosome, though this is not essential. Additionally, in other cases, allele specific inhibition of one of the alleles of each of 3, 4, or even 232/116 more target genes can be utilized in a serial. . . genes need not be tightly linked so that LOH of the various genes does not necessarily occur together. By using the serial inhibition of an allele of each of the target genes, it is possible to inhibit and preferably kill the full population of precancerous cells in which LOH has occurred. Thus, the net effect is essentially the same as if allele specific inhibitors of each of the two alternative alleles of one essential gene had been used.

In the context of the administration of multiple allele specific inhibitors, the terms serial or subsequently indicates that the administration of two or more inhibitors is sufficiently temporally separated so that normal somatic cells remain functional and are therefore able to survive and/or proliferate. Those skilled. . . that the required time will depend on various factors, such as clearance rate, type and extent of the effect of an inhibitor on normal cells, and additive cellular toxicity, and that appropriate timing can be routinely determined for particular selections of compounds.

In another related aspect, the invention provides a method for identifying a potential patient for treatment with an inhibitor active on a specific allele of an essential gene from one of the above categories. The method involves identifying a patient having. . . the neoplastic cells contain only a single allele of the gene, then the patient is a potential patient for treatment with the inhibitor.

With respect to identifying patients with precancerous or oligoclonal proliferative 232/116 diseases characterized by LOH, and selecting appropriate allele or variance-specific inhibitors for such patients, in some cases it may not be practical to obtain samples of all proliferative lesions for LOH assays... . . aorta cannot routinely be sampled by biopsy, and dysplastic lesions in the cervix, colon, or bronchus can be multifocal. Therefore, allele specific inhibitors can be selected for such conditions based on previously established

patterns of LOH for the condition, and on specific testing for. . .

most preferably 100%. However, it is not necessary that 100% of lesions show LOH for a successful treatment by allele specific inhibitors because 2,3,4, or even more inhibitors can be used in a combined approach to target an ever higher fraction of lesions, and because substantial therapeutic benefit may be achieved by inhibiting the proliferation of less than 100% of lesions.

In another aspect, the invention provides a method for identifying a potential patient undergoing transplantation for treatment with an inhibitor active on a specific allele of an essential gene from one of the above categories. The method involves identifying a patient undergoing. . .

related aspect, the invention provides a method for treating graft versus host disease in allogenic transplantation in which an allele specific inhibitor is used to inhibit proliferation of donor cells, e.g. . to inhibit stimulation of the donor immune system. In preferred embodiments, the allele specific inhibitor is selected by identifying alternative variances or allelic forms of an essential gene that are present in the donor tissues but not the recipient. Therapy with a variance or allele specific inhibitor or inhibitors that recognizes both alleles of the essential gene that are present in the donor, but not both alleles of the same. . .

another aspect, the invention provides a method for enhancing engraftment of an allogenic bone marrow transplant in which an allele specific inhibitor is used to kill or suppress the patient's own bone marrow, providing space for engraftment of the donor cells within the marrow cavity. In preferred embodiments, the allele specific inhibitor is selected by identifying alternative forms of an essential gene that are present in the recipient but not the donor marrow. Therapy with an allele specific (generally a variance specific) inhibitor that recognizes both forms of the essential gene that are present in the recipient, but not both forms of the same gene. . .

Allele specific inhibitors can be used to treat or prevent chimerism by selectively killing or suppressing proliferation of the patient's own cells without toxicity. . .

aspect, the invention provides a method for treating cancer in a patient receiving allogenic or autologous transplantation in which an allele specific inhibitor is used to kill or inhibit the growth of cancer cells without toxicity to the transplanted marrow. In one embodiment, in an autologous, transplantation the

allele specific inhibitor is selected to recognize one alternative allele of an essential gene remaining in the cancer cell due to LOH in patients. . . . therapy of cancer without suppression of the transplanted marrow. In an alternative embodiment, in an allogenic transplantation, therapy with an allele specific inhibitor that recognizes the one form of the essential gene that is present in cancer cells due to LOH in the recipient, tissue for selective reimplantation. The present invention provides for an improved method for purging bone marrow of malignant cells using allele specific inhibitors of essential genes. The method involves identifying an essential gene with only one variant form remaining in the cancer cells due. . . . The patient's bone marrow is then cultivated ex vivo using methods known in the art in the presence of an allele specific inhibitor that inhibits the allele that is present in the cancer cells, but not the alternative allele that is present in the heterozygous normal bone. . . .

In another aspect, the invention provides a method for inhibiting growth of or killing a cell containing only one allelic form of a gene by contacting the cell with an inhibitor active on that allelic form. The gene has at least two sequence variants in a population, and belongs to one of the categories of essential genes described below. The inhibitor is less active on at least one other allelic form of the gene.

In preferred embodiments of the above aspects in which an allele specific inhibitor is used to inhibit a cell or to treat a patient, a plurality of different inhibitors may be used. Preferably different inhibitors target a plurality of different variances in a single target gene, or target variances in different target genes, or both. In particular embodiments a plurality of inhibitors is used simultaneously, in others there is serial administration using different inhibitors or different sets of inhibitors in separate administrations, which may be performed as a single set of administrations in which each set of inhibitors is administered once, or in multiple serial administrations in which each set of inhibitors is administered more than once. Such use of multiple inhibitors provides enhanced inhibition, which preferably includes killing, of the targeted cells. In addition, allele specific inhibitors as described can be used in conjunction with other treatments for diseases and conditions, including in conjunction with other chemotherapeutic agents such. . . .

In a related aspect, an allele specific inhibitor can be used in conjunction with a conventional antiproliferative or chemotherapeutic agent or therapy, such therapies including radiation, immunotherapy, or surgery. In. . .

with the above aspects, in a further aspect the invention provides a pharmaceutical composition which includes at least one allele specific inhibitor.

In preferred embodiments the composition includes at least one allele specific

inhibitor and a pharmaceutically acceptable carrier. Such carriers are known in the art and some commonly used carriers are described in the Detailed Description

below. Also in preferred embodiments the composition includes two, three, or more allele specific inhibitors, and may also include a pharmaceutically acceptable carrier. In other preferred embodiments, the composition includes at least one allele specific inhibitor and another antineoplastic agent, which need not be an allele specific inhibitor. The embodiments of this aspect may also optionally include diluents and /or other components as are commonly used in pharmaceutical compositions or formulations. In embodiments having a plurality of allele specific inhibitors, the inhibitors may target a plurality of different variances of a single target essential gene, or may target sequence variances of a plurality of. . .

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In accord with the use of pharmaceutical compositions, the present invention also provides a packaged pharmaceutical composition comprising an allele specific

inhibitor as described above, bearing a Food and Drug Administration use indication for administration to a patient suffering from a cancer or.

Thus, similar to the above, the invention provides a method for identifying an

inhibitor potentially useful for treatment of cancer or other proliferative disorder.

The inhibitor is active on a conditionally essential gene, and the gene is subject to loss of heterozygosity in a cancer. The method. . . least two alleles of a said gene which differ at at least one sequence variance site and testing a potential allele specific inhibitor to determine whether the potential inhibitor is active on at least one but less than all of the identified alleles. If the potential

inhibitor inhibits expression of at least one but less than all of the alleles or reduces the level of activity of a product of at least one but less than all of the alleles, this indicates that the potential allele specific inhibitor is, in fact such an allele-specific

inhibitor inhibitor.

Similar to other types of target genes described above, the invention provides

inhibitors, methods for producing inhibitors, pharmaceutical compositions, methods for identifying potential patients, probes, and primers which target or recognize alleles of a conditionally essential gene or utilize inhibitors which target such genes.

also provides methods for preventing the development of cancer, methods for treating a patient suffering from a cancer, and methods for inhibiting growth of a cells as described above except that the targeted cells are subjected to an altered condition such that the gene. . .

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In still another aspect, not requiring the use of allele specific inhibitors, but still utilizing information about sequence variance or allelic differences between normal somatic cells and cancer cells in a patient, the invention. . .

above aspects, a conventional therapy acts on a protein or other molecular target in the same pathway as the allele specific inhibitor. As an example, the antineoplastic drug hydroxyurea, which inhibits ribonucleotide reductase (RR), can be used in conjunction with an allele specific inhibitor of RR subunit MI or M2 or another gene that encodes a product important in nucleotide synthesis. Similarly, the antiproliferative drug methotrexate inhibits the enzyme dihydrofolate reductase (DHFR), and can be used with allele specific inhibitors of DHFR that would result in a differential methotrexate effect on cancer tissues compared to normal proliferating tissues. Alternatively, methotrexate can be used with allele specific inhibitors of other genes important in folate metabolism to achieve an enhanced cancer cell specificity for methotrexate. Similarly, the anticancer drug 5-fluorouracil and related compounds can be administered together with an allele specific inhibitor of thymidylate synthase (TS) in a patient heterozygous for TS and with LOH at the TS gene in proliferating cells, e.g., cancer cells. Alternatively, an allele specific inhibitor of 5-FU degradation or metabolism can be administered with 5-FU. For example, the enzyme dihydropyrimidine dehydrogenase, which catalyzes the first and rate. . .

LOH in one or more tumors or other proliferative disorders. Genes having these characteristics can then be used for identifying allele specific inhibitors and evaluated for use in the other methods of this invention. Such procedures are routine, as is shown by the Detailed Description. . .

In preferred embodiments of the above methods and inhibitors involving particular target genes or classes or categories of genes, the inhibitor or potential inhibitor is a ribozyme which is designed to specifically cleave a particular target allelic form of a gene (i.e., a nucleotide sequence such. . .

Similarly, in preferred embodiments the inhibitor or potential inhibitor is an oligonucleotide, e.g, an antisense oligonucleotide, preferably at least partially an oligodeoxyribonucleotide. The antisense oligonucleotide is complementary to a sequence which includes. . .

Thus, derivatives of nucleic acid inhibitors include modified nucleic acid molecules which may contain one or more of: one or more nucleotide analogs, including modifications in the sugar. . .

Similarly, in preferred embodiments the inhibitor or potential inhibitor is an antibody, preferably a monoclonal antibody, which may be complexed or conjugated with one or more other components, or a fragment. . .

An inhibitor may also be an oligopeptide or oligopeptide derivative. Such peptides may be natural or synthetic amino acid sequences, and may have modifications. . .

In other embodiments, the inhibitor is a small molecule, for example, a molecule of one of the structural types used for conventional anticancer chemotherapy.

. . . region undergoes LOH at frequencies similar to the marker. Such gene identification thus further identifies particular cancers which can potentially be treated with inhibitors targeting sequence variances in those essential genes.

. . . LOH for other such disorders and cancers, and can further readily identify essential genes which are potential targets for variance specific inhibition and the treatment of the corresponding condition and in other aspects of this invention.

. . . 72 hours after transfection with antisense oligonucleotides. Anti-ras is an oligonucleotide known to have antiproliferative effects against T24 cells. This oligonucleotide exhibits inhibition comparable to the anti-RPA70 oligonucleotide.

. . . is two graphs showing that the proliferation of two cell lines homozygous for different variant forms of the RPA70 gene is inhibited to a greater degree by matched oligonucleotides than by oligomers having a single base mismatch. Cell proliferation was measured by BrdU incorporation. . .

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Fig. 13 is a graph showing Inhibition of BrdU incorporation in A549 cells by antisense oligonucleotides against the RPA 70 gene. Cells were transfected, as described previously, with a. . .

Fig. 20 is a graph showing inhibition of mutant ras using antisense oligonucleotides specific for the mutant form, based on information available in Schwab et al., 1994, PNAS 91:10460. . .

and the variant sequences within these genes, have utility for the therapy of cancer and other disorders through the discovery of variance-specific inhibitors.

Gene targets for a variance-specific inhibition strategy in this invention satisfy three criteria.

A large number of references have identified essential genes which constitute actual or potential targets for allele specific inhibition. The identification of essential genes can be approached in various ways.

carbohydrates, lipids, organic ions, and inorganic ions, or cytoskeletal elements. The loss of homeostasis often results in cell death or apoptosis or inhibition of cell proliferation. Homeostasis in a living cell is dynamic, and programed changes in homeostasis are required through the life cycle. .

those genes whose products are required for maintaining this homeostasis conducive to cell growth and survival are targets for anti-neoplastic e.g., anti-cancer, inhibitors as described in the methods herein. For example, many genes are involved in synthetic functions, allowing the cells to produce essential cellular. . .

affecting the gene in a neoplastic disorder, establishes that the gene is a target gene potentially useful for identifying allele specific inhibitors and for other aspects of the invention. In addition, as described, target genes are useftil in embodiments of certain aspects of the. . .

(Type I Beta) L25441

GGTI3 (Geranylgeranyltransferase) Y08201

Geranylgeranyltransferase (Type 11 Beta-Subunit) X98001

3.5 Genes required for regulation of levels of organic ions

Gdp Dissociation Inhibitors

GDI Alpha (RAB GDP Dissociation Inhibitor Alpha) D45021

Rab Gdp (RAB GDP Dissociation Inhibitor Alpha) D13988

4) Genes Required to Maintain Cellular Proteins at Levels Compatible with Cell Growth or Survival

Polypeptide precursor biosynthesis

Amino acid biosynthesis and. . . processing peptidase alpha subunit)

D50913
MMP7 X07819
Proteasome Beta 6 D29012
Proteasome Beta 7 D38048
Proteasome C13 U 1 7496
232/116
Proteasome C2 D00759
Proteasome C7-1 D26599
Proteasome inhibitor hPI31 subunit D88378
Proteasome P I 12 D44466
Proteasome P27 ABOO3177
Proteasome P55 ABOO3103
Ubiquitin System
Enzyme E2-17 Kd(Cyclin-selective ubiquitin carrier protein) U73379
ISOT-3(Ubiquitin carboxyl-terminal hydrolase. . .

Cell Shape and Motility at Levels
Compatible with Cell Growth or Survival
Cell structure genes (Cytoskeleton)
Actin X04098
Beta-Contractin X82207
Capping Protein Alpha U03851
CFL I (Cofilin, Non-Muscle Isoform) X95404
Desmin J03191
Dystrophin U26743
Gelsolin X04412
hOGG I (Myosin Light Chain Kinase) ABOO0410
IC Heavy Chain U31089
Itga2 (Integrin, Alpha 2 (CD49B, alpha. . .

Therapy with inhibitors of conditionally essential genes involves administration of the inhibitor together with a chemical or physical elements that causes the target gene to be essential for cell survival or proliferation. The use of allele specific inhibitors in the current invention allows specific killing of cancer cells with such chemical or physical agent since the gene function that is essential for the survival of cells (in the presence of the chemical or physical agent) is inhibited in the cancer cell but not in the normal cell.

are responsible for maintaining cell survival or proliferation in the presence of a drug or biological material. For example, a drug that inhibits one pathway for maintaining the level of a cellular constituent within levels required for cell survival or proliferation may make alternative pathways essential. In a specific embodiment, the inhibition of a synthetic pathway for a cellular constituent may make alternative synthetic pathways essential for cell survival or proliferation. Alternatively, a . . . from the cell essential for continued survival or proliferation. It will be evident to those skilled in the art that anything which inhibits the ability of a cell to survive in the presence of a specific drug that is designed to be cytostatic or cytotoxic, will sensitize that cell to the effects of the drug. A chemosensitizing agent is one that inhibits a function

in the cell that is conditionally essential due to the administration of a chemotherapeutic drug.

in DNA repair may be essential that are not essential in the absence of the external physical force. An agent that inhibits functions in the cell that are essential due to the administration of ionizing radiation would be termed a radiosensitizing agent.

physical factors, determining whether such genes are subject to loss of heterozygosity, identifying alternative alleles in these genes and developing allele specific inhibitors of alternative forms of the gene.

The administration of such an inhibitor to a patient who has two alternative forms of the gene in normal cells but only one in the cancer cell. . .

Thiopurinemethyltransferase (GenBankU12387)
e. Inactivation or transformation of other drugs including, but not limited to, purine analogs, folate analogs, topoisomerase inhibitors and tubulin acting drugs via specific enzymatic modification.

I-kappa B alpha (GenBank M69043)
Increased expression of exogenous I kappa B-alpha, an inhibitor of NF-kappa B, increases cell sensitivity to ionizing radiation. Thus is conditionally essential for cells exposed to ionizing radiation.

affect the gene sequence, RNA sequence, or protein sequence of the gene or its gene products, which would facilitate the design of inhibitors of the protein product, or be a base difference anywhere within the genomic DNA sequence, including the promoter or intron regions. Such DNA sequence variance can be exploited to design inhibitors of transcription or translation which distinguish between two allelic forms of the targeted gene. Sequence variants that do not alter protein sequence. .

genes located in regions which are characteristically associated with LOH for a particular cancer, or other tumor are particularly advantageous targets for inhibitors useful for treatment of that cancer or tumor because such genes will also characteristically undergo LOH at high frequency. The fact that. . . LOH occurs before the clonal expansion of cancers in precancerous, abnormally proliferating tissue is potentially useful for preventing cancer with allele specific inhibitors of essential genes.

disorder will indicate that the allele specific treatment would be appropriate for the disorder. For the application of the general allele specific inhibition strategy to such conditions (e.g..

selection of target gene
and variance, identification of inhibitors, selection of
composition and
administration method appropriate for the condition and the
inhibitor), the cells
associated with the condition correspond with the tumor, e.g., cancer
cells, for the
232/116
methods described in the Summary above.

at least one marker. This does not
necessarily represent the maximum fraction of plaques which could
potentially be
treated with allele specific inhibitors because the study did
not attempt to determine
the sites of maximum LOH on each arm. LOH which is partial arm.

allele of the essential
gene is lost from the patient's cancer cells, the retained allele can be
targeted with an
allele specific inhibitor. Such an inhibitor will
kill, or reduce or prevent the growth
of cancer cells by abolishing the function of an essential gene. Normal
cells, which
retain both uninhibited and inhibited alleles, will survive or
grow due to the
expression of the uninhibited allele. This is clearly indicated because
tumor cells
having only one allelic form (after LOH) thrive, thus, normal cells will
also
function normally with one of two allelic forms inhibited.

neuroectodermal
tumor
Rhabdomyosarcoma
17q Breast carcinoma
Neurofibroma: N171
22q Acoustic neurinoma
1 8 Renal cell carcinoma Colorectal carcinoma
18q Breast carcinoma Ependymoma
Colorectal carcinoma Meningioma
Neurofibroma

V. Use of variance-specific inhibitors of essential genes to
treat non-malignant,
proliferative conditions.

will differ, with, for example, allele A
of a hypothetical essential gene lost in some plaques and allele A' in
others. An inhibitor of allele A would be expected to kill (or
arrest
growth of) only about half of all the plaques with allele.
plaques heterozygous for A. To kill the other
half of the plaques with allele loss at the target locus would require
an

inhibitor of A'. Simultaneous use of inhibitors of A
and A' would be
highly toxic to diploid normal cells. However serial use of an
inhibitor
directed to allele A followed by an inhibitor directed to A'
(perhaps
repeating treatment for several cycles, or even indefinitely) would
alternately abolish essential gene function in one half of all haploid
plaque
cells and then the other half, leading eventually to death or sustained
inhibition of proliferation of all plaque cells. Normal cells

would retain

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50% gene function in the presence of inhibitor (either from allele A or allele A'). This therapeutic approach is applicable to the eradication of any clonal proliferation of cells in. . .

surgically removed, LOH has been well described. As with atherosclerotic plaques, these tumors are frequently multifocal and therefore the approach of serial inhibition of allele A followed by

inhibition of allele A' would alternately abolish essential gene function in one half of all haploid tumor cells and then the other half, leading eventually to death or sustained inhibition of proliferation of all tumor cells.

one allelic form in individuals whose normal somatic cells are heterozygous for the particular essential gene. The essential gene can therefore be inhibited by an allele specific inhibitor, i.e., a variance specific inhibitor. In some conditions, however, multiple, independently arising lesions in an individual are subjected to LOH in a disease or condition, e.g., in. .

It was determined that such conditions can be treated using allele specific

inhibitors despite the presence of both alleles in cells related to the condition.

There are two strategies for such therapy. The first is to serially administer different inhibitors targeted to the different allelic forms of the target gene. This can be accomplished by using inhibitors which target the alternative sequence variants of one sequence variance site. Simultaneous administration of inhibitors of both allelic forms of an essential gene would inhibit the cells which have undergone LOH at that gene, but would also inhibit the normal heterozygous cells of the individual. This treatment would inhibit essential functions in normal cells as well as cancer cells and have no advantage over the administration of conventional antiproliferative drugs, many of which are inhibitors of known essential functions. In contrast, administration of the first inhibitor targets the subset of cells which have only the first allelic form of an essential gene. As described for the general strategy, this inhibitor will not significantly affect the growth or survival of the normal heterozygous somatic cells. This first administration is followed by administration of a second inhibitor; the second

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inhibitor targets the cells which contain only the second allelic form of the gene, and again does not significantly affect the normal. . . will be useful. Similarly, recurring, or even indefinitely continued alternating

administrations will provide useful treatment. Likewise, these methods can incorporate the use of inhibitors targeted to specific alleles of a plurality, e.g., 2, 3, 4, or more different target genes.

in non-malignant diseases are not clonal, there may be systematic loss of one parental chromosome allowing effective therapy with only one variance-specific inhibitor. This would occur, for example, if there were an inherited or early embryonic mutation within a tumor suppressor gene on one parental. . . of the corresponding normal tumor suppressor gene on the other parental chromosome would lead to abnormal proliferation. In such cases a variance-specific inhibitor of an essential gene that was closely linked to the normal tumor suppressor gene would preferentially kill cells in the proliferating lesion.

VI. Characteristics of allele-specific inhibitors

As indicated above allele specific inhibitors or allele specific anti-neoplastic agents represent a new approach to tumor therapy because they are lethal or significantly inhibit the growth only of tumor cells. The advantages of this approach include, first, lack of toxicity to the normal cells of. . . a therapeutic index greater than that of conventional tumor, e.g., cancer chemotherapy drugs, and second, it is not necessary that the inhibitors be targeted specifically to the tumor cells, as they can be administered systemically. As also described above, usually an allele specific inhibitor is specific for a single 232/116 sequence variance of an essential gene, though in some cases the inhibitor utilizes the joint effects of two or more sequence variances on a particular allele.

It is not necessary for the allele specific inhibitor to have absolute specificity.

of a gene product encoded by the essential gene will often show a reduction in gene activity when they take up the inhibitors of this invention, but should remain viable due to the activity of the protein encoded by the uninhibited allele. On the other hand, tumor cells expressing only one allele due to LOH, will respond to the inhibitors of this invention which are specifically directed to the remaining allele, with a greater reduction in gene activity. Growth of tumor cells exposed to the inhibitors of this invention will be inhibited due to the suppression of either the synthesis or the biological activity of the essential gene product.

only two allelic forms in any given individual, the gene can have more than two allelic forms in a human population.

Accordingly,

inhibitors can be targeted to any of the alleles in the population. A particular

inhibitor will generally be targeted to a subset of the allelic forms; the members of the subset will have a particular sequence variance which provides the specific targeting. In some cases, however, the inhibitor will jointly target two, or possibly more sequence variances.

Once two or more alleles are identified for a target essential gene, inhibitors of high specificity for an allele can be designed or identified empirically. Inhibitors that can be used in the present invention will depend on whether allelic variation at a target locus affects the amino acid. . . the mRNA sequence, or the DNA in intron and promoter regions. If there is variation at the protein level, then classes of inhibitors would include low molecular weight drugs, oligopeptides and their derivatives, and antibodies, including modified or partial 232/116 antibody fragments or derivatives. For mRNA or DNA sequence variance the main class of inhibitors are complementary oligonucleotides and their derivatives and catalytic RNA molecules such as ribozymes, including modified ribozymes.

The generation of inhibitors of this invention can be accomplished by a number of methods. The preferred method for the generation of specific inhibitors of the targeted allelic gene product uses computer modeling of both the target protein and the specific inhibitor. Other methods include screening compound libraries or microorganism broths, empirical screening of libraries of peptides displayed on bacteriophage, and various immunological approaches.

Further, in the treatment of cancer patients, a therapeutic strategy includes using more than one inhibitor of this invention to inhibit more than one target. In this manner, inhibitors directed to different proteins essential to cell growth can be targeted and inhibited simultaneously. The advantage of this approach is to increase the specificity of the inhibition of proliferation of cancer cells, while at the same time maintaining a low incidence of side effects.

structure of the alternate allelic forms of the proteins, determinants can be identified which distinguish the allelic forms. Novel low molecular weight

inhibitors or oligopeptides can then be designed for selective binding to these determinants and consequent allele-specific inhibition. Descriptions of targeted drug design can be found, for example, in I. Kuntz, Structure-Based Strategies

for Drug Design and Discovery, Science 257:1078-1082. . . have been described in Piper et al., Studies Aided by Molecular Graphics of Effects of Structural Modifications on the Binding of Antifolate Inhibitors to Human Dihydrofolate Reductase, Proc Am. Assoc. Cancer Res. Annual Meeting 33:412 (1992); Hibert et al., Receptor 3D-Models and Drug Design, Therapie. . .

Low molecular weight inhibitors specific for each allelic protein form can be predicted by molecular modeling and synthesized by standard organic chemistry techniques. Computer modeling can. . .

The inhibitors of this invention can be identified by selecting those compounds that selectively inhibit the growth of cells expressing one allelic form of a gene, but do not inhibit the activity of the A allelic form.

B. Small Molecule Inhibitors 232/116

Low molecular weight inhibitors can be identified and generated by at least one of the following methods; (1) screening of small organic molecules present in microorganism. . .

Inhibition of protein function following differential binding. Several mechanisms of inhibition are possible including.

competitive inhibition of active sites or critical allosteric sites, allosteric inhibition of protein function, altering compartmentalization or stability, and inhibition of quaternary associations.

compounds that interact with particular features of a polypeptide or protein or protein complex, There are clear precedents for developing drugs, i.e., inhibitors, that are variance-specific including drugs that are allosteric inhibitors of protein functions. Several lines of experimental evidence demonstrate that small molecule variance specific 232/116

inhibitors can be designed and constructed for particular targets. Specifically.

Allosteric (noncompetitive) inhibition of protein function may be induced by binding ligands to many different surfaces of a protein. Ligands can cause allosteric inhibition by disturbing secondary, tertiary or quaternary (subunit-subunit) interactions of a protein. There is ample evidence that such effects can be induced by. . .

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Competitive inhibitors can exert variance-specific effects by exhibiting differential affinities for variant active sites, thereby interfering

with
binding of the substrate or critical allosteric. . .

Competitive inhibitors may bind with equal affinity for the active site but exerting different effects on the structure or function of the variant domain.

Allosteric inhibitors can exert variance-specific effects by binding differentially to variant forms of the active domain and distorting the structure or function of the. . .

model the topology and surface chemistry of the target in detail. These data are useful in optimizing the binding specificity or allosteric inhibitory function of the product through a series of iterative steps once a prototype binding ligand is identified. Structural modeling of the target. . .

Sites of allosteric inhibition
Most drug development focuses on competitive inhibitors of protein action rather than noncompetitive, allosteric inhibitors. There is no a priori advantage to a competitive versus allosteric inhibitor except for the fact that medicinal chemistry often begins with candidate molecules derived from natural substrates or cofactors. There are, in fact, conceptual advantages to allosteric inhibitors since each protein may contain multiple allosteric sites, and allosteric inhibitors may be effective at lower concentrations (e.g. those equivalent to the substrate) since there is no need to compete with the substrate. . .

Detailed crystallographic and other structural studies of a variety of enzymes show that the mechanism of allosteric inhibition commonly involves conformational changes (e.g. domain movements) far from the site of contact with the allosteric regulator. These data illustrate the cooperativity. . .

several well-characterized proteins. Another is to examine the distribution of epitopes for antibodies that bind to the surface of a protein and inhibit its function. Analyses of these types show that allosteric sites are widely dispersed within proteins and may comprise the majority of. . .

Three HIV-1 RT structures have been published, including complexes with double stranded DNA at 3.0 A resolution and with the non-nucleoside inhibitors nevirapine (at 3.5A) and -APA (at 2.8A).

Two classes of HIV-1 RT inhibitors have been developed. The first class comprises nucleoside analogues including AZT, ddI and ddC. The second class comprises non-nucleoside analogues belonging to. . . 5 shows the location of selected mutations within HIV-1 RT that cause resistance to nucleoside analogues as well as the

mechanism of

inhibition postulated from physical-chemical experiments and structural data; the list is not comprehensive.

Table 4

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Location and postulated mechanism of amino acid substitutions which confer resistance to nucleoside analog inhibitors. trp266X - multiple substitutions.

analog resistance arises from mutations in multiple domains. Many of the mutations are located far from the dNTP binding sites. These changes inhibit drug function by altering the conformation of the target protein in a manner analogous to those conformational changes that may be induced by an allosteric inhibitor.

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Table 5 summarizes the mutations that alter the function of non-nucleoside

inhibitor drugs

Table 5

Location and postulated mechanism of amino acid substitutions which confer resistance to non-nucleoside analog inhibitors.

ala98gly 5b- 6 loop flexibility Pyridinone L-697661, Nevirapine

leu1.00ile 5b- 6 loop -branch Pyridinone L-697661

Nevirapine, TIBO R82913

lys101glu 5b- 6 loop charge Pyridinone. . . loop flexibility BHAP U-87201

lys238thr 14 charge BHAP U-87201

trp266X -thumb TIBO R82913

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It is evident from these examples that the substitutions which inhibit drug functions are distributed across several domains. Different inhibitory mechanisms have been postulated in domains throughout the protein, based on the three-dimensional structure of the protein. Most involve conformational disruption of.

Thyrotropin receptor Naturally occurring antibodies against the thyrotropin

receptor can cause activation of thyroid function (Grave's disease) or inhibition of

thyroid function (Hashimoto's disease). The sites within the thyrotropin receptor

that are targeted by these natural antibodies have been mapped in detail and have

been tested with monoclonal antibodies. Most of the inhibitory antibodies do not

interfere with binding of thyrotropin to its receptor, and thus, are allosteric rather

than competitive inhibitors. Several independent classes of inhibitory antibodies

have been identified that bind to epitopes within different domains of the receptor.

can be deleted by site-directed mutagenesis without disrupting the function of the receptor. These experiments provide an explicit precedent for achieving allosteric inhibitory effects from ligands that target widely dispersed sequences within the protein.

Thermus aquaticus DNA polymerase The inhibitory activity of 24 monoclonal antibodies to *Thermus aquaticus* DNA polymerase has been investigated. The antibodies recognized 13 non-overlapping epitopes. Antibody binding to eight epitopes was inhibitory. Inhibitory antibodies mapped to several distinct domains, including the 5' nuclease domain, the polymerase domain and the boundary region between the 5' nuclease and polymerase domains. Some antibodies recognized epitopes overlapping the DNA binding groove of the polymerase. Significantly, the inhibitory antibodies recognized epitopes constituting as much as 50% of the Taq polymerase surface, and the non-inhibitory antibodies a further ~25%.

the pharmaceutical industry has worked to develop chemically modified penicillins and cephalosporins to elude inactivation by β -lactamases. In addition, a β -lactamase inhibitor (clavulanic acid) has also been introduced into clinical use.

associated with drug resistance distributed evenly across the 740 amino acids of the protein. The mechanism by which some of these substitutions inhibit *katG* function can be inferred from the structure of the homologous yeast and *E. coli* enzymes and knowledge of the catalytic.

The application of small molecule inhibitor identification is specifically discussed in Example 39 below in connection with the methylguanine methyltransferase gene.

C. Antibody Inhibition.

Antibody inhibitors are most effective when they are directed against cell surface proteins or receptors. If the essential protein produced by the targeted allele is not a cell surface protein or receptor, the development of antibody inhibitors may also require the use of a special antibody-delivery system to facilitate entry of the antibody into the tumor cells. The plasma . . . the structure of the variable region of allele specific antibodies can be used as the basis for design of smaller allele specific inhibitory molecules.

receptors or other polypeptides essential for cell viability. Methods for screening peptide sequences

which have high specificity for binding to, and functional inhibition of, a specific polypeptide target have been well described previously. Scott, J.K. and Smith G.P., Searching for Peptide Ligands with an Epitope. . . by phage display of polypeptide sequences as well as direct screening of peptides or mixtures of synthetic peptides for binding to or inhibition of the target Rinctional polypeptide.

Ribozymes

Oligonucleotides or oligonucleotide analogs which interact with complementary sequences of cellular target DNA or RNA can be synthesized and used to inhibit or control gene expression at the levels of transcription or translation. The oligonucleotides of this invention can be either oligodeoxyribonucleotides or oligoribonucleotides, or. . . they can act enzymatically, such as ribozymes. Both antisense RNA and DNA can be used in this capacity as chemotherapeutic agents for inhibiting gene transcription or translation. Trojan, J., et al, Treatment and prevention of rat glioblastoma, by immunogenic C6 cells expressing antisense insulin-like growth. . .

Inhibitory complementary oligonucleotides may be used as inhibitors for cancer therapeutics because of their high specificity and lack of toxicity.

Included in the scope of the invention are oligoribonucleotides, including antisense RNA and DNA molecules and ribozymes that function to inhibit expression of an essential gene in an allele specific manner. Anti-sense RNA and DNA molecules act to directly block the translation of. . .

A specific application of generating inhibitors which are either complementary oligonucleotides or inhibitory oligopeptides is described in Holzmayer, Pestov, and Roninson, Isolation of dominant negative mutants and inhibitory antisense RNA sequences by expression selection of random DNA fragments, Nucleic Acids Research 20:711-717 (1992). In this study, genetic suppressor elements (GSEs). . .

Preferred oligonucleotide inhibitors include oligonucleotide analogues which are resistant to degradation or hydrolysis by nucleases. These analogues include neutral, or nonionic, methylphosphonate analogues, which retain. . .

F, Gene Therapy

Nucleic acid molecules encoding oligonucleotide or polypeptide inhibitors will also be useftil in gene therapy (reviewed in Miller, Nature 357:455-460, (1992). Miller indicates that advances have resulted in practical approaches. . .

A nucleic acid sequence encoding an inhibitor may be administered utilizing an ex vivo approach

whereby cells are removed from an animal, transduced with the nucleic acid sequence and reimplanted. . . .

Many nonviral techniques for the delivery of a nucleic acid sequence encoding an

inhibitor into a cell can be used, including direct naked DNA uptake (e.g., Wolff et al., Science 247: 1465-1468, 1990), receptor-mediated DNA. . . .

its simplest form, gene transfer can be performed by simply injecting minute amounts of DNA (e.g., a plasmid vector encoding an inhibitor) into the nucleus of a cell, through a process of microinjection. Capecchi MR, Cell 22:479-88 (1980).

232/116

In another preferred embodiment, a vector having nucleic acid sequences encoding

an allele specific inhibitor is provided in which the nucleic acid sequence is expressed only in specific tissue. Examples or methods of achieving tissue-specific gene expression. . . .

V11. Utility of allele-specific inhibitors of essential genes
A, Conditions susceptible to therapy.

The fraction of all cancers could be treated with allele specific inhibitors directed against allele specific essential gene targets is a function of the frequency of the target allele and the frequency of LOH.. . . exist in two allelic forms, each with an allele frequency of 0.5 so that half the population would be heterozygous. An inhibitor of one allele of such an ideal target would be a useful agent for 25% of all cancer patients. An inhibitor of the other allele of the same ideal target would be therapeutic for an additional 25% of all patients, making 50%. . . .

Allele specific inhibitors of both alleles of such targets would be expected to address $0.4 \times 0.5 = 0.2$ or 20% of the relevant. . . .

<-----User Break----->

=> s actin

15854 ACTIN

208 ACTINS

L24

15915 ACTIN

(ACTIN OR ACTINS)

=> s stabil?

L25 282338 STABIL?

=> s ewing?

L26 3185 EWING?

=> s 126 and 124

L27 1098 L26 AND L24

=> s 127 and 125

L28 1004 L27 AND L25

=> s 124/ab
151 ACTIN/AB
1 ACTINS/AB
L29 152 (ACTIN/AB)
((ACTIN OR ACTINS) /AB)

=> s 129 and 126
L30 5 L29 AND L26

=> s 130 and 125
L31 5 L30 AND L25

=> d ibib 1-5

L31 ANSWER 1 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2006029046 PCTFULL ED 20060403 EW 200611
TITLE (ENGLISH): USE OF LEPTIN IN WOUND HEALING
TITLE (FRENCH): UTILISATION DE LEPTINE DANS LA GUERISON DE PLAIE
INVENTOR(S): SIERRA-HONIGMANN, Maria Rocio, 656 Camino de la Luna,
Thousand Oaks, California 91320, US
PATENT ASSIGNEE(S): YALE UNIVERSITY, Office of Cooperative Research, 433
Temple Street, New Haven, Connecticut 06511, US
AGENT: LEVY, Seth, D. et al.\$, Suite 2400, 865 South Figueroa
Street, Los Angeles, California 90017-2566;
90017-2566\$, US
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2006029046	A2	20060316

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO
CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR
HU ID IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU
LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL
PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA
UG US UZ VC VN YU ZA ZM ZW

RW (ARIPO):

BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
LT LU LV MC NL PL PT RO SE SI SK TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2005-US31455 A 20050902
PRIORITY INFO.: US 2004-60607115 20040903

L31 ANSWER 2 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2005042726 PCTFULL ED 20050519 EW 200519
TITLE (ENGLISH): METHODS FOR MODULATING AN IMMUNE RESPONSE BY MODULATING
KRC ACTIVITY
TITLE (FRENCH): METHODES PERMETTANT DE MODULER UNE REPOSE IMMUNITAIRE
PAR MODULATION DE L'ACTIVITE DE KRC
INVENTOR(S): GLIMCHER, Laurie, H., 51 Hampshire Street, West Newton,
MA 02165, US [US, US];
OUKKA, Mohamed, 46 Englewood Avenue, Brighton, MA
02146, US [US, US]
PATENT ASSIGNEE(S): PRESIDENT AND FELLOWS OF HARVARD COLLEGE, 1350
Massachusetts Avenue, Suite 727, Cambridge, MA 02138,
US [US, US], for all designates States except US;
GLIMCHER, Laurie, H., 51 Hampshire Street, West Newton,
MA 02165, US [US, US], for US only;
OUKKA, Mohamed, 46 Englewood Avenue, Brighton, MA
02146, US [US, US], for US only

AGENT: DECONTI, Giulio, A.\$, Lahive & Cockfield, LLP, 28 State
Street, Boston, MA 02109\$, US
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2005042726	A2	20050512

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO
CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR
HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ
VC VN YU ZA ZM ZW

RW (ARIPO):

BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
LU MC NL PL PT RO SE SI SK TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2004-US36641 A 20041103

PRIORITY INFO.:

US 2003-10/701,401 20031103

L31 ANSWER 3 OF 5

PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER:

2003027235 PCTFULL ED 20030410 EW 200314

TITLE (ENGLISH):

AFAP SEQUENCES, POLYPEPTIDES, ANTIBODIES AND METHODS

TITLE (FRENCH):

SEQUENCES AFAP, POLYPEPTIDES, ANTICORPS ET PROCEDES
ASSOCIES

INVENTOR(S):

FLYNN, Daniel, C., 418 Shawnee Drive, Morgantown, WV
26508-0911, US

PATENT ASSIGNEE(S):

WEST VIRGINIA UNIVERSITY RESEARCH CORPORATION, P.O. Box
6216, 201 Chestnut Ridge Research Building, Morgantown,
WV 26506-6216, US [US, US]

AGENT:

SPAR, Elizabeth, N.\$, Palmer & Dodge LLP, 111
Huntington Avenue, Boston, MA 02199-7613\$, US

LANGUAGE OF FILING:

English

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2003027235	A2	20030403

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

RW (ARIPO):

GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC
NL PT SE SK TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2002-US29559 A 20020918

PRIORITY INFO.:

US 2001-60/323,866 20010921

L31 ANSWER 4 OF 5

PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER:

2002102846 PCTFULL ED 20030115 EW 200252

TITLE (ENGLISH):

PHARMACEUTICAL COMPOSITION FOR DIAGNOSIS, PREVENTION OR
TREATMENT OF A TUMOROUS STATE, COMPRISING A MODULATOR
OF THE ACTIN POLYMERISATION STATE

TITLE (FRENCH):

COMPOSITION PHARMACEUTIQUE POUR LE DIAGNOSTIC, LA
PREVENTION OU LE TRAITEMENT D'UNE PATHOLOGIE TUMORALE,
COMPRENANT UN AGENT MODULATEUR DE L'ETAT DE

INVENTOR(S): POLYMERISATION DE L'ACTINE
 AUCLAIR, Christian, 22, avenue Parmentier, F-75011
 Paris, FR [FR, FR];
 AMSELLEM, Valerie, 103, avenue Philippe-Auguste,
 F-75011 Paris, FR [FR, FR];
 HERVY, Martial, 5, rue de l'Amiral Mouchez, F-75013
 Paris, FR [FR, FR];
 SUBRA, Frederic, 3 bis, rue d'Athenes, F-75009 Paris,
 FR [FR, FR]

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 except US;
 ECOLE NORMALE SUPERIEURE DE CACHAN, 61, avenue du
 President Wilson, F-94235 Cachan Cedex, FR [FR, FR],
 for all designates States except US;
 INSTITUT GUSTAVE ROUSSY-IGR, 39, rue Camille
 Desmoulins, F-94805 Villejuif Cedex, FR [FR, FR], for
 all designates States except US;
 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE -CNRS-, 3,
 rue Michel Ange, F-75794 Paris Cedex 16, FR [FR, FR],
 for all designates States except US;
 AUCLAIR, Christian, 22, avenue Parmentier, F-75011
 Paris, FR [FR, FR], for US only;
 AMSELLEM, Valerie, 103, avenue Philippe-Auguste,
 F-75011 Paris, FR [FR, FR], for US only;
 HERVY, Martial, 5, rue de l'Amiral Mouchez, F-75013
 Paris, FR [FR, FR], for US only;
 SUBRA, Frederic, 3 bis, rue d'Athenes, F-75009 Paris,
 FR [FR, FR], for US only

AGENT: BRESSE, Pierre\$, Bresse-Majerowicz, 3, avenue de
 l'Opera, F-75001 Paris\$, FR

LANGUAGE OF FILING: French
 LANGUAGE OF PUBL.: French
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002102846	A2	20021227

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

RW (ARIPO):

GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2002-FR2106 A 20020618

PRIORITY INFO.:

FR 2001-01/07976 20010618

L31 ANSWER 5 OF 5

ACCESSION NUMBER:

PCTFULL COPYRIGHT 2006 Univentio on STN

TITLE (ENGLISH):

1999022028 PCTFULL ED 20020515

TITLE (FRENCH):

MODULATORS OF ACTIN
 MODULATEURS D'ACTINE

INVENTOR(S):

KING, Mary-Claire;
 LYNCH, Eric, D.;
 LEE, Ming, K.;
 MORROW, Jan, E.;
 WELCSH, Piri, L.;
 LEON, Pedro, E.

PATENT ASSIGNEE(S):

THE UNIVERSITY OF WASHINGTON;
 THE UNIVERSITY OF COSTA RICA

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE

WO 9922028	A1	19990506

DESIGNATED STATES

W: CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
PT SE

APPLICATION INFO.: WO 1998-US23024 . A 19981029

PRIORITY INFO.: US 1997-60/063,737 19971029

US 1998-09/080,897 19980518

=> d kwic 31

5 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE

The answer numbers requested are not in the answer set.

ENTER ANSWER NUMBER OR RANGE (1):eng

ANSWER NUMBERS NOT CORRECTLY SPECIFIED

Enter an answer number, Example: 10

several answer numbers, Example: 3,7,10

a range of answer numbers, Example: 5-10

or a combination of these. Example: 3,7,9-10,15

ENTER ANSWER NUMBER OR RANGE (1):end

=> d kwic 3

L31 ANSWER 3 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN

ABEN The present invention comprises reagents and methods which target actin filaments or the cellular signals that control actin filament integrity. Specifically, the invention provides novel actin binding polypeptides (e.g., human AFAP polypeptides), antibodies which specifically recognize the same, nucleic acids encoding the same, and methods for. . .

DETD . . . aspect, the pathology is cancer, e.g., such as breast cancer, colon cancer, prostate cancer, lung cancer, a cancer involving neural cells, Ewing sarcoma and rhabdomyosarcoma.

. . . acids comprising one or more of modified bases, sugars, and intermicleotide linkages which preferably have the substantially the same or enhanced stability and/or specificity for a target nucleic acid as the nucleic acids from which they are derived.

. . . Antisense nucleic acids can also be chemically synthesized and can be deoxynucleotides or modified forms thereof which are selected to have enhanced stability in vivo.

. . . activated in a number of human cancers including breast cancer, colon cancer, prostate cancer, lung cancer (e.g., small lung cell carcinoma), neuroblastoma, Ewing sarcoma and rhabdomyosarcoma (Cartwright et al., 1990, supra; Rosen et al., 1986, supra).

. . . breast cancer, colon cancer, prostate cancer, lung cancer (e.g., small lung cell carcinoma), a cancer involving neural cells (e.g., such as neuroblastoma), Ewing sarcoma and rhabdomyosarcoma.

. . . forms thereof. In one aspect, the condition is cancer (e.g., such as breast cancer, colon cancer, prostate cancer, lung cancer,

neuroblastoma, Ewing sarcoma and rhabdomyosarcoma). In another aspect, the condition is a neurological disease (which can

47

The agents, agonists, and antagonists may be formulated. . . .

. . . and coverslips and observed under confocal microscopy (Zeiss, Oberkochen, Germany). Samples for negative staining were adsorbed to grids coated with nitrocellulose and stabilized with carbon (Ernest F. Fullam, Latham, NY). Unbound protein was removed by successive washes with buffer and water before staining with. . . .

CLMEN. . . said cancer is selected from the group consisting of. breast cancer, colon cancer, prostate cancer, lung cancer, a cancer involving neural cells, Ewing sarcoma and rhabdomyosarcoma.

=> d kwic 5

L31 ANSWER 5 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ABEN The invention provides methods and compositions which find use, i(inter alia), for modulating the stabilization of actin filaments. The compositions may comprise one or more polypeptide moieties derived from a novel human diaphanous polypeptide and/or one or. . . .
ABFR L'invention concerne des procedes et des compositions permettant, entre autres choses, de moduler la stabilisation des filaments d'actine. Ces compositions peuvent comprendre une ou plusieurs fractions de polypeptide derivees d'un nouveau polypeptide diaphane de l'homme. . . .
DETD INTRODUCTION
Field of the Invention
The invention relates to a class of polypeptides involved in actin stabilization.
. . . .
of the Invention
The actin cytoskeleton plays a central role in defining cellular structure and effecting dynamic changes in morphology. By selectively stabilizing and destabilizing actin polymerization, the cell is able to effect a wide range of structural reorganization and effect phenomena such as cell. . . .
the progress of many pathogenic infections, invasion and metastasis of neoplasia, fertilization, clotting and wound repair, etc., the stability of actin polymerization is a choice target for therapuetic intervention. In fact, potent drugs effecting actin filament destabilization and stabilization such as fungal-derived alkaloids including the cytochalasins and phalloidins are well known. Here we disclose a new family of modulators of actin polymer stabilization derived from a novel human diaphanous protein and gene.
SUMMARY OF THE INVENTION
The invention provides methods and compositions which find use. inter alia, for modulating the stabilization of actin filaments. The

compositions may comprise one or more polypeptide moieties derived from a novel human diaphanous polypeptide and/or one. . . .

other polypeptide moieties, complexed in a wide variety of covalent and/or non-covalent associations and binding complexes, etc., which may provide enhanced activity, stability, availability, targeting, etc.

polypeptide

hDial-del-15: CYCLIN B2 - residues 1141-1171 of SEQ ID NO:2 fusion

polypeptide

The invention provides methods and compositions of selectively modulating

cytoskeletal de/stabilization and/or the effective

concentration of a human diaphanous protein

within a target cell. The general methods involve introducing into the target. . . the human diaphanous polypeptide moiety, the modulator

may

comprise a wide variety of additional moieties, including moieties which provide for

detection, targeting, stability, proteolytic resistance, etc.

Preferred modulators demonstrate

cytoskeletal de/stabilization with several alternative methods

of introduction, including direct

medium uptake, uptake facilitated by chaotropic agents including

detergents (e.g. TWEEN20,

etc.), guanadine salts,. . . .

to a probe specific for the binding agent. Agents of

particular interest modulate human diaphanous polypeptide function, e.g.

human diaphanous

5

polypeptide-dependent actin de/stabilization.

usually RNA or DNA, it is often advantageous to use nucleic acids comprising other bases or nucleotide analogs to provide modified stability, etc.

3.0 were transferred to a UNIX-based Sun workstation for cont-ig' assembly and blast analysis. The computer program PHRED (Green P and Ewing B. 1996.

phrap.docs/ phred.html) was used to assign bases

to the electropherograms. After eliminating vector sequences, the

program PHRAP (Green P

10 and Ewing B. 1996. [http://www.bozeman.mbt.washington.edu/](http://www.bozeman.mbt.washington.edu/phrap.docs/phrap.html)

phrap.docs/ phrap.html) was

used to analyze the sequences, identify overlapping individual

sequences, and assemble them

into contigs. To. . . .

daily blood and peritoneal sample to evaluate peritoneal fluid cell counts,

hematological cell counts, serum chemistries, bacterial cultures as needed, vector stability,

viral uptake by cells, expression of hDial gene and presence of

antibodies to vector envelope

proteins. At four week intervals patients are. . . .

Detection of vector stability and expression. DNA is prepared from cell samples by

hypotonic lysis, digestion with proteinase K (Boehringer Mannheim, Indianapolis. Indiana)

and SDS, followed. . . .

PCR primers specific for the neo sequences within the LXS_N-hDialsv vector are employed for determination of vector presence and stability within patient samples. RT-PCR is performed by our published methods (Thompson, M. E., et al. Nature Genetics 9, 444-450] 1995.).

=> s ewing sarcoma or (ewing? sarcoma
 UNMATCHED LEFT PARENTHESIS 'OR (EWING?'
 The number of right parentheses in a query must be equal to the number of left parentheses.

```
=> s ewing sarcoma or (ewing? sarcoma)
      3035 EWING
      132 EWINGS
      3112 EWING
          (EWING OR EWINGS)
      18118 SARCOMA
      5088 SARCOMAS
          5 SARCOMATA
      19804 SARCOMA
          (SARCOMA OR SARCOMAS OR SARCOMATA)
      392 EWING SARCOMA
          (EWING (W) SARCOMA)
      3185 EWING?
      18118 SARCOMA
      5088 SARCOMAS
          5 SARCOMATA
      19804 SARCOMA
          (SARCOMA OR SARCOMAS OR SARCOMATA)
      400 EWING? SARCOMA
          (EWING? (W) SARCOMA)
L32      400 EWING SARCOMA OR (EWING? SARCOMA)
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=> d his

(FILE 'HOME' ENTERED AT 14:41:45 ON 17 APR 2006)

FILE 'REGISTRY' ENTERED AT 14:41:55 ON 17 APR 2006
 E "DOLASTATIN"/CN 25

L1 1 S E6

FILE 'CAPLUS' ENTERED AT 14:42:50 ON 17 APR 2006

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L2 52669 S ACTIN
L3 812 S COFILIN
L4 1968300 S ANTAG? OR INHIBIT?
L5 222 S L4 (L) L3
L6 1659 S EWING?
L7 1 S L6 AND L5
L8 22 S L1
L9 0 S L8 AND L6
L10 224 S ZYXIN
L11 3 S L10 AND L6
L12 6 S L3 AND L6
L13 4 S L12 AND L4
L14 989 S PHOSPHOINOSITOL?
L15 0 S L14 AND L6
L16 98 S PHOSPHOTIDYLINOSITOL
L17 0 S L15 AND L6
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FILE 'PCTFULL' ENTERED AT 14:49:15 ON 17 APR 2006

L18 188 S COFILIN

L19 3185 S EWING?
 L20 19 S L19 AND L18
 L21 198141 S ANTAG? OR INHIBIT?
 L22 19 S L20 AND L21
 L23 4 S L22 NOT PY>2001
 L24 15915 S ACTIN
 L25 282338 S STABIL?
 L26 3185 S EWING?
 L27 1098 S L26 AND L24
 L28 1004 S L27 AND L25
 L29 152 S L24/AB
 L30 5 S L29 AND L26
 L31 5 S L30 AND L25
 L32 400 S EWING SARCOMA OR (EWING? SARCOMA)

=> s 132 and 124
 L33 165 L32 AND L24

=> s 133 and 125
 L34 137 L33 AND L25

=> s 134 not py>2001
 488865 PY>2001
 L35 54 L34 NOT PY>2001

=> s 135 and 129
 L36 0 L35 AND L29

=> s 124/clm
 L37 1198 (ACTIN/CLM)

=> s 137 and 135
 L38 5 L37 AND L35

=> s 124/ti
 L39 44 (ACTIN/TI)

=> s 139 and 135
 L40 0 L39 AND L35

=> d ibib 138 1-5

L38 ANSWER 1 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 2001055368 PCTFULL ED 20020827
 TITLE (ENGLISH): NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES
 TITLE (FRENCH): ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS
 INVENTOR(S): ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
 ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2001055368	A1	20010802

DESIGNATED STATES
 W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
 MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
 SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY

DE	DK	ES	FI	FR	GB	GR	IE	IT	LU	MC	NL	PT	SE	TR	BF	BJ	CF
CG	CI	CM	GA	GN	GW	ML	MR	NE	SN	TD	TG						
WO	2001-US	1348					A	20010117									
US	2000-60/179,	065						20000131									
US	2000-60/180,	628						20000204									
US	2000-60/184,	664						20000224									
US	2000-60/186,	350						20000302									
US	2000-60/189,	874						20000316									
US	2000-60/190,	076						20000317									
US	2000-60/198,	123						20000418									
US	2000-60/205,	515						20000519									
US	2000-60/209,	467						20000607									
US	2000-60/214,	886						20000628									
US	2000-60/215,	135						20000630									
US	2000-60/216,	647						20000707									
US	2000-60/216,	880						20000707									
US	2000-60/217,	487						20000711									
US	2000-60/217,	496						20000711									
US	2000-60/218,	290						20000714									
US	2000-60/220,	963						20000726									
US	2000-60/220,	964						20000726									
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US	2000-60/226,	681						20000822									
US	2000-60/227,	009						20000823									
US	2000-60/228,	924						20000830									
US	2000-60/229,	344						20000901			</						

US 2000-60/234,997	20000925
US 2000-60/234,998	20000925
US 2000-60/235,484	20000926
US 2000-60/235,834	20000927
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US 2000-60/237,038	20001002
US 2000-60/237,040	20001002
US 2000-60/237,037	20001002
US 2000-60/236,802	20001002
US 2000-60/239,937	20001013
US 2000-60/239,935	20001013
US 2000-60/241,785	20001020
US 2000-60/241,809	20001020
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US 2000-60/250,160	20001201
US 2000-60/256,719	20001205
US 2000-60/251,030	20001205

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US 2000-60/251,856	20001208
US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 2 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
 ACCESSION NUMBER: 2001055328 PCTFULL ED 20020827
 TITLE (ENGLISH): NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES
 TITLE (FRENCH): ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS
 INVENTOR(S): ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
 ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2001055328	A2	20010802

DESIGNATED STATES
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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
 MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
 SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
 DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF
 CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:
 PRIORITY INFO.:

WO 2001-US1359	A	20010117
US 2000-60/179,065		20000131
US 2000-60/180,628		20000204
US 2000-60/184,664		20000224
US 2000-60/186,350		20000302
US 2000-60/189,874		20000316
US 2000-60/190,076		20000317
US 2000-60/198,123		20000418
US 2000-60/205,515		20000519
US 2000-60/209,467		20000607
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US 2000-60/217,487		20000711
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US 2000-60/236,368	20000929
US 2000-60/236,367	20000929
US 2000-60/237,039	20001002
US 2000-60/237,038	20001002
US 2000-60/237,040	20001002
US 2000-60/237,037	20001002
US 2000-60/236,802	20001002
US 2000-60/239,937	20001013
US 2000-60/239,935	20001013
US 2000-60/241,785	20001020
US 2000-60/241,809	20001020
US 2000-60/240,960	20001020
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US 2000-60/241,808	20001020
US 2000-60/241,221	20001020
US 2000-60/241,786	20001020
US 2000-60/241,826	20001020
US 2000-60/244,617	20001101
US 2000-60/246,474	20001108
US 2000-60/246,532	20001108
US 2000-60/246,476	20001108
US 2000-60/246,526	20001108
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US 2000-60/249,297	20001117
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US 2000-60/251,856	20001208
US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 3 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN

2001055201 PCTFULL ED 20020827

NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES

ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS

ROSEN, Craig, A.;

BARASH, Steven, C.;

RUBEN, Steven, M.

HUMAN GENOME SCIENCES, INC.;

ROSEN, Craig, A.;

BARASH, Steven, C.;

RUBEN, Steven, M.

Patent

NUMBER	KIND	DATE

WO 2001055201	A1	20010802

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
 MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD

US 2000-60/234,274	20000921
US 2000-60/234,997	20000925
US 2000-60/234,998	20000925
US 2000-60/235,484	20000926
US 2000-60/235,834	20000927
US 2000-60/235,836	20000927
US 2000-60/236,369	20000929
US 2000-60/236,327	20000929
US 2000-60/236,370	20000929
US 2000-60/236,368	20000929
US 2000-60/236,367	20000929
US 2000-60/237,039	20001002
US 2000-60/237,038	20001002
US 2000-60/237,040	20001002
US 2000-60/237,037	20001002
US 2000-60/236,802	20001002
US 2000-60/239,937	20001013
US 2000-60/239,935	20001013
US 2000-60/241,785	20001020
US 2000-60/241,809	20001020
US 2000-60/240,960	20001020
US 2000-60/241,787	20001020
US 2000-60/241,808	20001020
US 2000-60/241,221	20001020
US 2000-60/241,786	20001020
US 2000-60/241,826	20001020
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US 2000-60/246,474	20001108
US 2000-60/246,532	20001108
US 2000-60/246,476	20001108
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US 2000-60/249,209	20001117
US 2000-60/249,300	20001117
US 2000-60/249,265	20001117
US 2000-60/250,391	20001201
US 2000-60/250,160	20001201
US 2000-60/256,719	20001205

US 2000-60/251,030	20001205
US 2000-60/251,988	20001205
US 2000-60/251,479	20001206
US 2000-60/251,869	20001208
US 2000-60/251,856	20001208
US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 4 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
 2001054733 PCTFULL ED 20020827
 NUCLEIC ACIDS, PROTEINS AND ANTIBODIES
 ACIDES NUCLEIQUES, PROTEINES ET ANTICORPS
 ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 HUMAN GENOME SCIENCES, INC.;
 ROSEN, Craig, A.;
 BARASH, Steven, C.;
 RUBEN, Steven, M.
 Patent

NUMBER	KIND	DATE
WO 2001054733	A1	20010802

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
 MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
 SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
 DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF
 CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:

PRIORITY INFO.:

WO 2001-US1312	A	20010117
US 2000-60/179,065		20000131
US 2000-60/180,628		20000204
US 2000-60/184,664		20000224
US 2000-60/186,350		20000302
US 2000-60/189,874		20000316
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US 2000-60/217,487		20000711
US 2000-60/217,496		20000711
US 2000-60/218,290		20000714
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US 2000-60/225,759		20000814
US 2000-60/225,213		20000814

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US 2000-60/225,214	20000814
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US 2000-60/226,681	20000822
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US 2000-60/251,856	20001208
US 2000-60/251,868	20001208
US 2000-60/251,990	20001208
US 2000-60/251,989	20001208
US 2000-60/254,097	20001211
US 2001-60/259,678	20010105

L38 ANSWER 5 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

TITLE (FRENCH):

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
 2001053514 PCTFULL ED 20020827
 TOXICANT-INDUCED DIFFERENTIAL GENE EXPRESSION
 EXPRESSION GENETIQUE DIFFERENTIELLE INDUITE PAR
 SUBSTANCES TOXIQUES
 REIDHAAR-OLSON, John, F.
 GLAXO GROUP LIMITED;
 REIDHAAR-OLSON, John, F.
 Patent

NUMBER	KIND	DATE
WO 2001053514	A1	20010726

DESIGNATED STATES

W:

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
 DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
 KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
 UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
 ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI
 FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA

GN GW ML MR NE SN TD TG
APPLICATION INFO.: WO 2001-US1920 A 20010119
PRIORITY INFO.: US 2000-09/489,220 20000121

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS	4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS	5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	6	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	7	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS	8	JAN 30	Saved answer limit increased
NEWS	9	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS	10	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	12	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	13	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS	14	FEB 28	TOXCENTER reloaded with enhancements
NEWS	15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	16	MAR 01	INSPEC reloaded and enhanced
NEWS	17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS	18	MAR 08	X.25 communication option no longer available after June 2006
NEWS	19	MAR 22	EMBASE is now updated on a daily basis
NEWS	20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS	21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS	22	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS	23	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS	24	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS	25	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
<http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:12:12 ON 17 APR 2006

=> file pctfull

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'PCTFULL' ENTERED AT 16:12:30 ON 17 APR 2006
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FILE LAST UPDATED: 11 APR 2006 <20060411/UP>
MOST RECENT UPDATE WEEK: 200614 <200614/EW>
FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOW AVAILABLE IN THIS FILE.

SEE

<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE
(last updated April 10, 2006) <<<

=> s jasplakinolide

171 JASPLAKINOLIDE

1 JASPLAKINOLIDES

L1 171 JASPLAKINOLIDE

(JASPLAKINOLIDE OR JASPLAKINOLIDES)

=> s ewing? (2W) sarcoma

3185 EWING?

18118 SARCOMA

5088 SARCOMAS

5 SARCOMATA

19804 SARCOMA

(SARCOMA OR SARCOMAS OR SARCOMATA)

L2 1574 EWING? (2W) SARCOMA

=> s 12 and 11

L3 36 L2 AND L1

=> s 13 not py>2001

488865 PY>2001

L4 1 L3 NOT PY>2001

=> d ibib

L4 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000071135 PCTFULL ED 20020515
TITLE (ENGLISH): ANTI-TUMOR COMPRISING BOROPROLINE COMPOUNDS
TITLE (FRENCH): AGENTS ANTI-TUMORALES CONTENANT DES COMPOSES DE
BOROPROLINE
INVENTOR(S): WALLNER, Barbara, P.;
MILLER, Glenn
PATENT ASSIGNEE(S): POINT THERAPEUTICS, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000071135	A1	20001130

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ
TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US14505 A 20000525
PRIORITY INFO.: US 1999-60/135,861 19990525

=> d kwic

L4 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . myxoid liposarcomas and pleiomorphic
liposarcomas), leiomyosarcomas, rhabdomyosarcomas, malignant peripheral
nerve sheath
tumors (also called malignant schwannomas, neurofibrosarcomas, or
neurogenic sarcomas),
Ewing's tumors (including Ewing's sarcoma of bone,
extraskelatal [not bone] Ewing's
io sarcoma, and primitive neuroectoderinal tumor [PNET]),
synovial sarcoma, angiosarconias,
hemangiosarcomas, lymphangiosarcomas, Kaposi's sarcoma,
hemangioendothelioma,
fibrosarcoma, desmoid tumor (also called aggressive fibromatosis),
dermatofibrosarcoma
protuberans (DFSP),. . .
immunostimulant peptides-, insulin-like growth factor-I receptor
inhibitoi, interferon
agonists; interferons; interleukins; iobenguane; lododoxorubicin;
lporneanol, 4-; irinotecan;
iropact; irsogladine; isobengazole; isohomohalicondrin B; itasetron;
jasplakinolide;
kahalalide F; lamellarin-N triacetate; lanreotide; leinamycin;
lenograstim; lentinan sulfate;
leptolstatin; letrozole; leukemia inhibiting factor; leukocyte alpha
interferon; leuprolide +
estrogen + progesterone; leuprorelin;. . .

=> s hepatocarcinoma? or mesenchymal or neuroectodermal
463 HEPATOCARCINOMA?

```

4765 MESENCHYMAL
    1 MESENCHYMALS
4765 MESENCHYMAL
    (MESENCHYMAL OR MESENCHYMALS)
922 NEUROECTODERMAL
    1 NEUROECTODERMALS
922 NEUROECTODERMAL
    (NEUROECTODERMAL OR NEUROECTODERMALS)
L5      5608 HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL

```

=> s 15 and 14

L6 1 L5 AND L4

=> d kwic\

'KWIC\' IS NOT A VALID FORMAT FOR FILE 'PCTFULL'

The following are valid formats:

```

ALL, MAX-----BIB plus IND plus ABS plus TX
ALLG-----ALL, MAX plus GI
BIB-----AN, ED, UP, EW, UW, TIEN, TIFR, TIDE, TIES, IN, PA, LA, LAF
            DT, PI, DS, AI, PRAI
BIBG-----BIB plus GI
IND, IPC-----ICM, ICS
ABS-----ABEN, ABF, ABFR, ABDE, ABES
TX-----DETD, CLM
IALL,IMAX-----ALL indented with text labels
IALLG,IMAXG-----IALL, IMAX plus GI
DALL-----Delimited ALL format
STD-----BIB plus IND
STDG-----STD plus GI
ISTD-----STD indented with text labels
ISTDG-----ISTD plus GI
BRIEF-----BIB plus ABS
BRIEFG-----BIB plus ABS plus GI
IBRIEF-----BRIEF indented with text labels
IBRIEFG-----IBRIEF plus GI
SCAN-----TI (random display without AN)
TRIAL (TRI)-----FA, TI, CLMN, DETN
SAMPLE (SAM)-----FA, TI, CLMN, DETN
FREE-----FA, TI, CLMN, DETN
ENTER DISPLAY FORMAT (STD):kwic

```

L6 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2006 Univention on STN

```

DETD . . . epithelium eductussemicircularis, enamel epithelium, false
epithelium,
germinal epithelium, gingival epithelium, glandular epithelium,
glomerular epithelium,
laminated epithelium, epithelium of lens, epithelium lentis,
mesenchymal epithelium,
olfactory epithelium, pavement epithelium, pigmentary epithelium,
pigmented epithelium,
protective epithelium, pseudostratified epithelium, pyramidal
epithelium, respiratory
epithelium, rod epithelium, serniniferous epithelium, sense epithelium,.
. .
gelatinous carcinoma, giant cell
carcinoma, gigantocellulare, glandular carcinoma, granulosa. cell
carcinoma, hair-matrix
carcinoma, hematoid carcinoma, hepatocellular carcinoma (also called
hepatoma, malignant
hepatoma and hepatocarcinoma), Mirthle cell carcinoma, hyaline
carcinoma, hypernephroid

```

carcinoma, infantile embryonal carcinoma, carcinoma in situ,
intraepidermal carcinoma,
intraepithelial carcinoma, Krompecher's carcinoma, Kulchitzky-cell
carcinoma, lenticular
carcinoma, . . .

characterized by an abnormal mammalian cell proliferation to be
treated by the methods of the invention include sarcomas. Sarcomas are
rare mesenchymal
neoplasms that arise in bone and soft tissues. Different types of
sarcomas are recognized and
these include: liposarcomas (including myxoid liposarcomas and
pleiomorphic
liposarcomas), leiomyosarcomas, rhabdomyosarcomas, malignant peripheral
nerve sheath
tumors (also called malignant schwannomas, neurofibrosarcomas, or
neurogenic sarcomas),
Ewing's tumors (including Ewing's sarcoma of bone,
extraskeletal [not bone] Ewing's
sarcoma, and primitive neuroectodermal tumor [PNET]),
synovial sarcoma, angiosarcomas,
hemangiosarcomas, lymphangiosarcomas, Kaposi's sarcoma,
hemangioendothelioma,
fibrosarcoma, desmoid tumor (also called aggressive fibromatosis),
dermatofibrosarcoma
protuberans (DFSP), . . .

immunostimulant peptides-, insulin-like growth factor-I receptor
inhibitors, interferon
agonists; interferons; interleukins; iobenguane; lododoxorubicin;
lornetane, 4-; irinotecan;
iroplact; irsogladine; isobengazole; isohomohalicondrin B; itasetron;
jasplakinolide;
kahalalide F; lamellarin-N triacetate; lanreotide; leinamycin;
lenograstim; lentinan sulfate;
leptolstatin; letrozole; leukemia inhibiting factor; leukocyte alpha
interferon; leuprolide +
estrogen + progesterone; leuprorelin; . . .

=> d his

(FILE 'HOME' ENTERED AT 16:12:12 ON 17 APR 2006)

FILE 'PCTFULL' ENTERED AT 16:12:30 ON 17 APR 2006

L1 171 S JASPLAKINOLIDE
L2 1574 S EWING? (2W) SARCOMA
L3 36 S L2 AND L1
L4 1 S L3 NOT PY>2001
L5 5608 S HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL
L6 1 S L5 AND L4

=> s 15 and 11

L7 37 L5 AND L1

=> s 17 not py>2001

488865 PY>2001

L8 4 L7 NOT PY>2001

=> d bib 1-4.

L8	ANSWER 1 OF 4	PCTFULL	COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER:		2001089520	PCTFULL ED 20020826
TITLE (ENGLISH):		DEHYDROASCORBIC ACID FORMULATIONS AND USES THEREOF	
TITLE (FRENCH):		FORMULATIONS D'ACIDE DEHYDROASCORBIQUE ET LEURS	

INVENTOR(S):
PATENT ASSIGNEE(S):
DOCUMENT TYPE:
PATENT INFORMATION:

UTILISATIONS
OLSON, William, C.;
ISRAEL, Robert, J.;
BOYD, Thomas, A.
PROGENICS PHARMACEUTICALS, INC.;
OLSON, William, C.;
ISRAEL, Robert, J.;
BOYD, Thomas, A.
Patent

NUMBER	KIND	DATE
WO 2001089520	A2	20011129

DESIGNATED STATES
W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:
PRIORITY INFO.:

WO 2000-US41407 A 20001020
US 2000-60/205,870 20000519

L8 ANSWER 2 OF 4
ACCESSION NUMBER:
TITLE (ENGLISH):
TITLE (FRENCH):
INVENTOR(S):
PATENT ASSIGNEE(S):
DOCUMENT TYPE:
PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
2001029235 PCTFULL ED 20020820
TMS1 COMPOSITIONS AND METHODS OF USE
COMPOSITIONS DU GENE TMS1 ET PROCEDES D'UTILISATION
VERTINO, Paula, M.
EMORY UNIVERSITY
Patent

NUMBER	KIND	DATE
WO 2001029235	A2	20010426

DESIGNATED STATES
W:

AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

APPLICATION INFO.:
PRIORITY INFO.:

WO 2000-US28747 A 20001018
US 1999-60/159,975 19991018

L8 ANSWER 3 OF 4
ACCESSION NUMBER:
TITLE (ENGLISH):
TITLE (FRENCH):
INVENTOR(S):
PATENT ASSIGNEE(S):
LANGUAGE OF PUBL.:
DOCUMENT TYPE:
PATENT INFORMATION:

PCTFULL COPYRIGHT 2006 Univentio on STN
2000071135 PCTFULL ED 20020515
ANTI-TUMOR COMPRISING BOROPROLINE COMPOUNDS
AGENTS ANTI-TUMORALES CONTENANT DES COMPOSES DE
BOROPROLINE
WALLNER, Barbara, P.;
MILLER, Glenn
POINT THERAPEUTICS, INC.
English
Patent

NUMBER	KIND	DATE
WO 2000071135	A1	20001130

DESIGNATED STATES
W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ
TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US14505 A 20000525
PRIORITY INFO.: US 1999-60/135,861 19990525

L8 ANSWER 4 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 1999004817 PCTFULL ED 20020515
TITLE (ENGLISH): CHEMOTHERAPY SYNERGISTIC AGENT
TITLE (FRENCH): AGENT SYNERGIQUE POUR CHIMIOTHERAPIE
INVENTOR(S): WINKELMAN, James, W.;
BRIDGES, Kenneth, R.
PATENT ASSIGNEE(S): BRIGHAM & WOMEN'S HOSPITAL, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9904817	A1	19990204

DESIGNATED STATES

W: AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

APPLICATION INFO.: WO 1998-US15052 A 19980722
PRIORITY INFO.: US 1997-60/053,696 19970725
US 1997-60/054,148 19970725

=> d kwic 4

L8 ANSWER 4 OF 4 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . 91)

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin
cancer, including melanoma, Kaposi's sarcoma, basal. . . .
peptides; insulin-like
growth factor-I receptor inhibitor; interferon agonists; interferons; interleukins; iobenguane;
I 0 iododoxorubicin; ipomeanol, 4-; irinotecan; iroplact; irsogladine; isobengazole;
isohomohalicondrin B; itasetron; jasplakinolide; kahalalide F; larnellarin-N triacetate;
lanreotide; leinamycin; lenograstim; lentinan sulfate; leptolstatin; letrozole; leukemia
inhibiting factor; leukocyte alpha interferon; leuprolide + estrogen + progesterone;
leuprorelin;. . .

CLMEN. . . and

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin
cancer, including melanoma, Kaposi's sarcoma, basocellular. . . .

and

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin

- 24 -

cancer, including melanoma, Kaposi's. . .

and

lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer'; rectal cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and osteosarcoma; skin
cancer, including melanoma, Kaposi's sarcoma, basocellular. . .

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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FILE LAST UPDATED: 16 Apr 2006 (20060416/ED)

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<http://www.cas.org/infopolicy.html>

=> s jasplakinolide/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L10 118 L9

=> s jasplakinolide

251 JASPLAKINOLIDE
1 JASPLAKINOLIDES
L11 252 JASPLAKINOLIDE
(JASPLAKINOLIDE OR JASPLAKINOLIDES)

=> s l11 or l10

L12 279 L11 OR L10

=> s hepatocarcinoma? or mesenchymal or neuroectodermal

1409 HEPATOCARCINOMA?

11238 MESENCHYMAL

1281 NEUROECTODERMAL

L13 13848 HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL

=> s l13 and l12

L14 2 L13 AND L12

=> d ibib 1-2

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:248055 CAPLUS

DOCUMENT NUMBER: 142:352644

TITLE: RhoA/ROCK Signaling Regulates Sox9 Expression and Actin Organization during Chondrogenesis

AUTHOR(S): Woods, Anita; Wang, Guoyan; Beier, Frank

CORPORATE SOURCE: Canadian Institutes of Health Research Group in Skeletal Development and Remodeling, Department of Physiology and Pharmacology, University of Western Ontario, London, ON, N6A 5C1, Can.

SOURCE: Journal of Biological Chemistry (2005), 280(12), 11626-11634

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:816528 CAPLUS

DOCUMENT NUMBER: 140:12638

TITLE: Two CD95 tumor classes with different sensitivities to antitumor drugs

AUTHOR(S): Algeciras-Schimnich, Alicia; Pietras, Eric M.; Barnhart, Bryan C.; Legembre, Patrick; Vijayan, Shrijay; Holbeck, Susan L.; Peter, Marcus E.

CORPORATE SOURCE: The Ben May Institute for Cancer Research, University of Chicago, Chicago, IL, 60637, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2003), 100(20), 11445-11450

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s ewing? (2W) sarcoma

1659 EWING?

36667 SARCOMA

4162 SARCOMAS

100 SARCOMATA

38298 SARCOMA

(SARCOMA OR SARCOMAS OR SARCOMATA)
L15 1277 EWING? (2W) SARCOMA

=> s l15 and l12

L16 0 L15 AND L12

=> s dolastatin 11/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L18 22 L17

=> s dolastatin 11

390 DOLASTATIN

59 DOLASTATINS

404 DOLASTATIN

(DOLASTATIN OR DOLASTATINS)

916607 11

L19 22 DOLASTATIN 11

(DOLASTATIN(W)11)

=> s l19 or l18

L20 24 L19 OR L18

=> d his

(FILE 'HOME' ENTERED AT 16:12:12 ON 17 APR 2006)

FILE 'PCTFULL' ENTERED AT 16:12:30 ON 17 APR 2006

L1 171 S JASPLAKINOLIDE

L2 1574 S EWING? (2W) SARCOMA

L3 36 S L2 AND L1

L4 1 S L3 NOT PY>2001

L5 5608 S HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL

L6 1 S L5 AND L4

L7 37 S L5 AND L1

L8 4 S L7 NOT PY>2001

FILE 'CAPLUS' ENTERED AT 16:18:34 ON 17 APR 2006

S JASPLAKINOLIDE/CN

FILE 'REGISTRY' ENTERED AT 16:18:43 ON 17 APR 2006

L9 1 S JASPLAKINOLIDE/CN

FILE 'CAPLUS' ENTERED AT 16:18:43 ON 17 APR 2006

L10 118 S L9

L11 252 S JASPLAKINOLIDE

L12 279 S L11 OR L10

L13 13848 S HEPATOCARCINOMA? OR MESENCHYMAL OR NEUROECTODERMAL

L14 2 S L13 AND L12

L15 1277 S EWING? (2W) SARCOMA

L16 0 S L15 AND L12

S DOLASTATIN 11/CN

FILE 'REGISTRY' ENTERED AT 16:20:17 ON 17 APR 2006

L17 1 S DOLASTATIN 11/CN

FILE 'CAPLUS' ENTERED AT 16:20:18 ON 17 APR 2006

L18 22 S L17

L19 22 S DOLASTATIN 11
L20 24 S L19 OR L18

=> s l20 and l13
L21 1 L20 AND L13

=> d ibib

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:816528 CAPLUS
DOCUMENT NUMBER: 140:12638
TITLE: Two CD95 tumor classes with different sensitivities to
antitumor drugs
AUTHOR(S): Algeciras-Schimmich, Alicia; Pietras, Eric M.;
Barnhart, Bryan C.; Legembre, Patrick; Vijayan,
Shrijay; Holbeck, Susan L.; Peter, Marcus E.
CORPORATE SOURCE: The Ben May Institute for Cancer Research, University
of Chicago, Chicago, IL, 60637, USA
SOURCE: Proceedings of the National Academy of Sciences of the
United States of America (2003), 100(20), 11445-11450
CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d kwic

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AB . . . half are type II. Most of the type I cell lines fall into a
distinct class of tumor cells expressing mesenchymal-like genes,
whereas the type II cell lines preferentially express epithelium-like
markers. This suggests that type I and II tumor cells represent different
stages of carcinogenesis that resemble the epithelial-mesenchymal
transition. We then screened the National Cancer Institute database of
>42,000 compds. for reagents with patterns of growth inhibition that.
ST soluble CD95ligand antitumor mesenchymal epithelial tumor actin
tubulin disruption; antitumor resistance CD95 signaling gene expression
carcinogenesis
IT 362-07-2, 2-Methoxyestradiol 1110-02-7, NSC 112167 2222-07-3,
Cucurbitacin I 6040-19-3, Cucurbitacin A 6766-43-4, Cucurbitacin K
33069-62-4D, Taxol, analog 82855-09-2D, Combretastatin, analog
102396-24-7D, Jasplakinolide, analog 108675-64-5 111517-68-1,
NSC 606195 141172-06-7 630400-59-8, NSC 666608 630400-60-1, NSC
658831 630400-62-3, NSC 666606
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(two CD95 tumor classes with different sensitivities to antitumor
drugs)

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	8.35	50.43
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-0.75	-0.75

STN INTERNATIONAL LOGOFF AT 16:21:51 ON 17 APR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS 4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS 6	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 7	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS 8	JAN 30	Saved answer limit increased
NEWS 9	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 10	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS 11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS 12	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 13	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS 14	FEB 28	TOXCENTER reloaded with enhancements
NEWS 15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS 16	MAR 01	INSPEC reloaded and enhanced
NEWS 17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 18	MAR 08	X.25 communication option no longer available after June 2006
NEWS 19	MAR 22	EMBASE is now updated on a daily basis
NEWS 20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 22	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS 23	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 24	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 25	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS EXPRESS		FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT

<http://download.cas.org/express/v8.0-Discover/>

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NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

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FULL ESTIMATED COST	0.21	0.21

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FILE COVERS 1907 - 18 Apr 2006 VOL 144 ISS 17

FILE LAST UPDATED: 17 Apr 2006 (20060417/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s cofilin

	777 COFILIN
	232 COFILINS
L1	814 COFILIN
	(COFILIN OR COFILINS)

=> s inhibit?

L2	1822517 INHIBIT?
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=> s l1 (L) l2

L3	221 L1 (L) L2
----	---------------

=> s hepatocar? or mesenchy? or nuroectoder? or (ewing?)

	7077 HEPATOCAR?
	15151 MESENCHY?
	0 NUROECTODER?
	1659 EWING?

L4 23829 HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)

=> s l3 and l4

L5 1 L3 AND L4

=> d ibib

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:977858 CAPLUS

DOCUMENT NUMBER: 138:52333

TITLE: Pharmaceutical composition for diagnosis, prevention or treatment of a tumorous state, comprising a modulator of the actin polymerization state

INVENTOR(S): Auclair, Christian; Amsellem, Valerie; Hervy, Martial; Subra, Frederic

PATENT ASSIGNEE(S): Bioalliance Pharma, Fr.; Ecole Normale Superieure De Cachan; Institut Gustave Roussy-IGR; Centre National de la Recherche Scientifique CNRS

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102846	A2	20021227	WO 2002-FR2106	20020618
WO 2002102846	A3	20040422		
WO 2002102846	B1	20040603		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
FR 2825928	A1	20021220	FR 2001-7976	20010618
FR 2825928	B1	20040402		
CA 2450845	AA	20021227	CA 2002-2450845	20020618
EP 1432732	A2	20040630	EP 2002-745538	20020618
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2005504521	T2	20050217	JP 2003-506318	20020618
US 2004191230	A1	20040930	US 2003-740266	20031218
PRIORITY APPLN. INFO.:			FR 2001-7976	A 20010618
			WO 2002-FR2106	W 20020618

=> s actin

49687 ACTIN

30340 ACTINS

L6 52687 ACTIN

(ACTIN OR ACTINS)

=> s stabil?

L7 1026058 STABIL?

=> s l6 (l) l7

L8 2489 L6 (L) L7

=> d his

(FILE 'HOME' ENTERED AT 09:03:09 ON 18 APR 2006)

FILE 'CAPLUS' ENTERED AT 09:03:17 ON 18 APR 2006

L1 814 S COFILIN
L2 1822517 S INHIBIT?
L3 221 S L1 (L) L2
L4 23829 S HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)
L5 1 S L3 AND L4
L6 52687 S ACTIN
L7 1026058 S STABIL?
L8 2489 S L6 (L) L7

=> s 18 and 14

L9 19 L8 AND L4

=> s 19 not py>2002

3759065 PY>2002

L10 8 L9 NOT PY>2002

=> s 19 not py>2001

4742175 PY>2001

L11 8 L9 NOT PY>2001

=> d ibib 1-8

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:88952 CAPLUS

DOCUMENT NUMBER: 136:242165

TITLE: TGF β is required for the formation of
capillary-like structures in three-dimensional
cocultures of 10T1/2 and endothelial cells

AUTHOR(S): Darland, D. C.; D'Amore, P. A.

CORPORATE SOURCE: The Schepens Eye Research Institute and the Department
of Ophthalmology, Harvard Medical School, Boston, MA,
02114, USA

SOURCE: Angiogenesis (2001), 4(1), 11-20

CODEN: AGIOFT; ISSN: 0969-6970

PUBLISHER: Kluwer Academic Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:7412 CAPLUS

DOCUMENT NUMBER: 134:264229

TITLE: Integrin α 3 β 1 engagement disrupts
intercellular adhesion

AUTHOR(S): Kawano, Kenji; Kantak, Seema S.; Murai, Mutsuhiko;

Yao, Chung-Chen; Kramer, Randall H.

CORPORATE SOURCE: Department of Stomatology, University of California at
San Francisco, San Francisco, CA, 94143-0512, USA

SOURCE: Experimental Cell Research (2001), 262(2), 180-196

CODEN: ECREAL; ISSN: 0014-4827

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:336418 CAPLUS

DOCUMENT NUMBER: 133:87270

TITLE: The tetraspan molecule CD151, a novel constituent of

hemidesmosomes, associates with the integrin $\alpha 6 \beta 4$ and may regulate the spatial organization of hemidesmosomes

AUTHOR(S): Sterk, Lotus M. Th.; Geuijen, Cecile A. W.; Oomen, Laurant C. J. M.; Calafat, Jero; Janssen, Hans; Sonnenberg, Arnoud

CORPORATE SOURCE: Division of Cell Biology, The Netherlands Cancer Institute, Amsterdam, 1066 CX, Neth.

SOURCE: Journal of Cell Biology (2000), 149(4), 969-982
CODEN: JCLBA3; ISSN: 0021-9525

PUBLISHER: Rockefeller University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:517212 CAPLUS

DOCUMENT NUMBER: 129:170359

TITLE: Expression of human bone morphogenic protein 7 in primary rabbit periosteal cells. Potential utility in gene therapy for osteochondral repair

AUTHOR(S): Mason, J. M.; Grande, D. A.; Barcia, M.; Grant, R.; Pergolizzi, R. G.; Breitbart, A. S.

CORPORATE SOURCE: Viral Vector Lab., Dep. Res., North Shore Univ. Hosp.-New York Univ. Sch. Med., Manhasset, NY, 11030, USA

SOURCE: Gene Therapy (1998), 5(8), 1098-1104
CODEN: GETHEC; ISSN: 0969-7128

PUBLISHER: Stockton Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:269919 CAPLUS

DOCUMENT NUMBER: 126:260361

TITLE: Modulation of LDL receptor mRNA stability by phorbol esters in human liver cell culture models

AUTHOR(S): Wilson, G. M.; Roberts, E. A.; Deeley, R. G.

CORPORATE SOURCE: Department of Biochemistry and Cancer Research Laboratories, Queen's University, Kingston, ON, Can.

SOURCE: Journal of Lipid Research (1997), 38(3), 437-446
CODEN: JLPRAW; ISSN: 0022-2275

PUBLISHER: Lipid Research, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:145098 CAPLUS

DOCUMENT NUMBER: 116:145098

TITLE: Gene regulatory factors of the sea urchin embryo. I. Purification by affinity chromatography and cloning of P3A2, a novel DNA-binding protein

AUTHOR(S): Calzone, Frank J.; Hoeoeg, Christer; Teplow, David B.; Cutting, Ann E.; Zeller, Robert W.; Britten, Roy J.; Davidson, Eric H.

CORPORATE SOURCE: Div. Biol., California Inst. Technol., Pasadena, CA, 91125, USA

SOURCE: Development (Cambridge, United Kingdom) (1991), 112(1), 335-50
CODEN: DEVPED; ISSN: 0950-1991

DOCUMENT TYPE: Journal
LANGUAGE: English

L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:595544 CAPLUS
DOCUMENT NUMBER: 107:195544
TITLE: Developmental and tissue-specific regulation of
 β -tubulin gene expression in the embryo of the
sea urchin *Strongylocentrotus purpuratus*
AUTHOR(S): Harlow, Patricia; Nemer, Martin
CORPORATE SOURCE: Inst. Cancer Res., Fox Chase Cancer Cent.,
Philadelphia, PA, 19111, USA
SOURCE: Genes & Development (1987), 1(2), 147-60
CODEN: GEDEEP; ISSN: 0890-9369
DOCUMENT TYPE: Journal
LANGUAGE: English

L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:140906 CAPLUS
DOCUMENT NUMBER: 98:140906
TITLE: A yellow crescent cytoskeletal domain in ascidian eggs
and its role in early development
AUTHOR(S): Jeffery, William R.; Meier, Stephen
CORPORATE SOURCE: Dep. Zool., Univ. Texas, Austin, TX, 78712, USA
SOURCE: Developmental Biology (Orlando, FL, United States)
(1983), 96(1), 125-43
CODEN: DEBIAO; ISSN: 0012-1606
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d kwic 3

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
AB . . . and certain integrins to form large complexes at the cell
surface. CD151 is expressed by a variety of epithelia and
mesenchymal cells. We demonstrate here that in human skin CD151
is codistributed with $\alpha 3 \beta 1$ and $\alpha 6 \beta 4$ at the
basolateral surface of. . . cell surface in association with patches of
laminin-5. Focal adhesions are present at the periphery of these
clusters, connected with actin filaments, and they contain both
CD151 and $\alpha 3 \beta 1$. Transient transfection studies of PA-JEB cells
with $\beta 4$ revealed that the integrin. . . recruitment into
hemidesmosomes is regulated by the integrin $\alpha 6 \beta 4$. We suggest
that CD151 plays a role in the formation and stability of
hemidesmosomes by providing a framework for the spatial organization of
the different hemidesmosomal components.

=> s dolastatin or jasplakinolide
390 DOLASTATIN
59 DOLASTATINS
404 DOLASTATIN
(DOLASTATIN OR DOLASTATINS)
251 JASPLAKINOLIDE
1 JASPLAKINOLIDES
252 JASPLAKINOLIDE
(JASPLAKINOLIDE OR JASPLAKINOLIDES)
L12 652 DOLASTATIN OR JASPLAKINOLIDE

=> d his

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FILE 'CAPLUS' ENTERED AT 09:03:17 ON 18 APR 2006

L1 814 S COFILIN
 L2 1822517 S INHIBIT?
 L3 221 S L1 (L) L2
 L4 23829 S HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)
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 L6 52687 S ACTIN
 L7 1026058 S STABIL?
 L8 2489 S L6 (L) L7
 L9 19 S L8 AND L4
 L10 8 S L9 NOT PY>2002
 L11 8 S L9 NOT PY>2001
 L12 652 S DOLASTATIN OR JASPLAKINOLIDE

=> s 112 and 14

L13 8 L12 AND L4

=> s 113 not py>2001

4742175 PY>2001

L14 0 L13 NOT PY>2001

=> s 113 not py>2002

3759065 PY>2002

L15 0 L13 NOT PY>2002

=> d 113 ibib 1-8

L13 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:13464 CAPLUS

DOCUMENT NUMBER: 144:101073

TITLE: therapeutic uses of kinase inhibitors, and compositions thereof

INVENTOR(S): Caligiuri, Maureen G.; Kley, Nikolai A.; Murthi, Krishna K.

PATENT ASSIGNEE(S): GPC Biotech, Inc., USA

SOURCE: PCT Int. Appl., 201 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006002119	A2	20060105	WO 2005-US21843	20050617
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2004-580868P P 20040618

OTHER SOURCE(S): MARPAT 144:101073

L13 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1290072 CAPLUS

DOCUMENT NUMBER: 144:46998

TITLE: The X-ray crystal structure of BRCA1 tandem BRCT repeat and BACH1 phosphopeptide complex and methods and compositions for antitumor drug design

INVENTOR(S): Yaffe, Michael B.; Clapperton, Julie A.; Manke, Isaac A.; Lowery, Drew M.; Ho, Timmy; Haire, Lesley F.; Smerdon, Stephen J.
 PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
 SOURCE: PCT Int. Appl., 360 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005115454	A2	20051208	WO 2005-US15981	20050509
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2004-569131P P 20040507

L13 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:409543 CAPLUS
 DOCUMENT NUMBER: 142:457053
 TITLE: Human protein IAP (inhibitor of apoptosis protein) nucleobase oligomers, including dsRNA, shRNA, and siRNA, and their use for enhancing apoptosis in cancer therapy

INVENTOR(S): Lacasse, Eric; McManus, Daniel
 PATENT ASSIGNEE(S): Aegera Therapeutics, Inc., Can.
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042558	A1	20050512	WO 2004-CA1902	20041029
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

US 2005148535 A1 20050707 US 2004-975974 20041028
 PRIORITY APPLN. INFO.: US 2003-516192P P 20031030

L13 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:409357 CAPLUS
 DOCUMENT NUMBER: 142:457052
 TITLE: Sequences of antisense IAP (inhibitor of apoptosis

protein) oligomers and their use for treatment of
proliferative diseases with a chemotherapeutic agent
Lacasse, Eric; McManus, Daniel; Durkin, Jon P.
INVENTOR(S):
PATENT ASSIGNEE(S): Aegera Therapeutics, Inc., Can.
SOURCE: PCT Int. Appl., 285 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042030	A1	20050512	WO 2004-CA1900	20041029
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

US 2005119217 A1 20050602 US 2004-975790 20041028
PRIORITY APPLN. INFO.: US 2003-516263P P 20031030
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:283298 CAPLUS
DOCUMENT NUMBER: 142:349042
TITLE: Combinations of chlorpromazine compounds and antiproliferative drugs for the treatment of neoplasms
INVENTOR(S): Lee, Margaret S.; Nichols, James M.; Zhang, Yanzhen; Keith, Curtis
PATENT ASSIGNEE(S): Combinatorx, Incorporated, USA
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005027842	A2	20050331	WO 2004-US30368	20040916
WO 2005027842	A3	20051222		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2003-504310P P 20030918
OTHER SOURCE(S): MARPAT 142:349042

L13 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:248055 CAPLUS

DOCUMENT NUMBER: 142:352644
 TITLE: RhoA/ROCK Signaling Regulates Sox9 Expression and Actin Organization during Chondrogenesis
 AUTHOR(S): Woods, Anita; Wang, Guoyan; Beier, Frank
 CORPORATE SOURCE: Canadian Institutes of Health Research Group in Skeletal Development and Remodeling, Department of Physiology and Pharmacology, University of Western Ontario, London, ON, N6A 5C1, Can.
 SOURCE: Journal of Biological Chemistry (2005), 280(12), 11626-11634
 CODEN: JBCHA3; ISSN: 0021-9258
 PUBLISHER: American Society for Biochemistry and Molecular Biology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:816528 CAPLUS
 DOCUMENT NUMBER: 140:12638
 TITLE: Two CD95 tumor classes with different sensitivities to antitumor drugs
 AUTHOR(S): Algeciras-Schimmich, Alicia; Pietras, Eric M.; Barnhart, Bryan C.; Legembre, Patrick; Vijayan, Shrijay; Holbeck, Susan L.; Peter, Marcus E.
 CORPORATE SOURCE: The Ben May Institute for Cancer Research, University of Chicago, Chicago, IL, 60637, USA
 SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2003), 100(20), 11445-11450
 CODEN: PNASA6; ISSN: 0027-8424
 PUBLISHER: National Academy of Sciences
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:924095 CAPLUS
 DOCUMENT NUMBER: 136:31647
 TITLE: Toxicity typing using mesenchymal stem cells
 INVENTOR(S): Snodgrass, H. Ralph
 PATENT ASSIGNEE(S): Vistagen, Inc., USA
 SOURCE: PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001096865	A1	20011220	WO 2001-US19048	20010614
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2412769	AA	20011220	CA 2001-2412769	20010614
US 2002045179	A1	20020418	US 2001-881475	20010614
EP 1290443	A1	20030312	EP 2001-946335	20010614

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2004503255 T2 20040205 JP 2002-510943 20010614
 PRIORITY APPLN. INFO.: US 2000-211608P P 20000614
 WO 2001-US19048 W 20010614
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file pctfull		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	51.50	51.71
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.75	-0.75

FILE 'PCTFULL' ENTERED AT 09:07:34 ON 18 APR 2006
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FILE LAST UPDATED: 11 APR 2006 <20060411/UP>
 MOST RECENT UPDATE WEEK: 200614 <200614/EW>
 FILE COVERS 1978 TO DATE

>>> IMAGES ARE AVAILABLE ONLINE AND FOR EMAIL-PRINTS <<<

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<http://www.stn-international.de/stndatabases/details/ipc-reform.html> >>>

>>> FOR CHANGES IN PCTFULL PLEASE SEE HELP CHANGE
 (last updated April 10, 2006) <<<

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=> s dolastatin or jasplakinolide
      459 DOLASTATIN
      70 DOLASTATINS
      477 DOLASTATIN
          (DOLASTATIN OR DOLASTATINS)
      171 JASPLAKINOLIDE
      1 JASPLAKINOLIDES
      171 JASPLAKINOLIDE
          (JASPLAKINOLIDE OR JASPLAKINOLIDES)
L16    643 DOLASTATIN OR JASPLAKINOLIDE

=> s hepatocar? or mesenchy? or nuroectoder? or (ewing?)
      770 HEPATOCAR?
      5688 MESENCHY?
      0 NUROECTODER?
      3185 EWING?
L17    8782 HEPATOCAR? OR MESENCHY? OR NUROECTODER? OR (EWING?)

=> s 117 and 116
L18    243 L17 AND L16

=> s 118 not py>2001
      488865 PY>2001
L19    16 L18 NOT PY>2001

=> s 116/clm
      60 DOLASTATIN/CLM
      7 JASPLAKINOLIDE/CLM
L20    67 (DOLASTATIN/CLM OR JASPLAKINOLIDE/CLM)

=> s 120 and 119
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L21 0 L20 AND L19
=> s l19 not py>2000
587352 PY>2000
L22 8 L19 NOT PY>2000

=> d ibib 1-8

L22 ANSWER 1 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000071135 PCTFULL ED 20020515
TITLE (ENGLISH): ANTI-TUMOR COMPRISING BOROPROLINE COMPOUNDS
TITLE (FRENCH): AGENTS ANTI-TUMORALES CONTENANT DES COMPOSES DE
BOROPROLINE
INVENTOR(S): WALLNER, Barbara, P.;
MILLER, Glenn
PATENT ASSIGNEE(S): POINT THERAPEUTICS, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 2000071135	A1	20001130
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DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ
TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US14505 A 20000525
PRIORITY INFO.: US 1999-60/135,861 19990525

L22 ANSWER 2 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2000067802 PCTFULL ED 20020515
TITLE (ENGLISH): FATTY ACID-N-SUBSTITUTED INDOL-3-GLYOXYL-AMIDE
COMPOSITIONS AND USES THEREOF
TITLE (FRENCH): COMPOSITIONS D'ACIDES GRAS -N-SUBSTITUTED
INDOL-3-GLYOXYL-AMIDE ET LEUR UTILISATION
INVENTOR(S): BRADLEY, Matthews, O.;
SWINDELL, Charles, S.;
ANTHONY, Forrest;
WEBB, Nigel, L.;
FISHER, Mark
PATENT ASSIGNEE(S): PROTARGA, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 2000067802	A1	20001116
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DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG
ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI
FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN
GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US12752 A 20000510
PRIORITY INFO.: US 1999-60/133,292 19990510

L22 ANSWER 3 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER: 2000064946 PCTFULL ED 20020515
 TITLE (ENGLISH): COMPOSITIONS AND METHODS FOR CANCER TREATMENT BY
 SELECTIVELY INHIBITING VEGF
 TITLE (FRENCH): COMPOSITIONS ET PROCEDES DE TRAITEMENT DU CANCER PAR
 INHIBITION SELECTIVE DE VEGF
 INVENTOR(S): THORPE, Philip, E.;
 BREKKEN, Rolf, A.
 PATENT ASSIGNEE(S): BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000064946	A2	20001102

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
 DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
 JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
 TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG
 ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI
 FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN
 GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-US11367 A 20000428
 PRIORITY INFO.: US 1999-60/131,432 19990428

L22 ANSWER 4 OF 8

ACCESSION NUMBER: PCTFULL COPYRIGHT 2006 Univentio on STN
 2000050016 PCTFULL ED 20020515
 TITLE (ENGLISH): COMPOSITIONS AND METHODS FOR IMPROVING INTEGRITY OF
 COMPROMISED BODY PASSAGEWAYS AND CAVITIES
 TITLE (FRENCH): COMPOSITIONS ET METHODES POUR L'AMELIORATION DE
 L'INTEGRITE DE CAVITES ET DE PASSAGES CORPORELS
 AFFAIBLIS

INVENTOR(S): SIGNORE, Pierre, E.;
 MACHAN, Lindsay, S.
 PATENT ASSIGNEE(S): ANGIOTECH PHARMACEUTICALS, INC.;
 SIGNORE, Pierre, E.;
 MACHAN, Lindsay, S.

LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000050016	A2	20000831

DESIGNATED STATES

W:

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
 DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
 KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
 UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW
 AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
 GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW
 ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-CA175 A 20000223
 PRIORITY INFO.: US 1999-60/121,424 19990223

L22 ANSWER 5 OF 8

ACCESSION NUMBER: PCTFULL COPYRIGHT 2006 Univentio on STN
 1999062510 PCTFULL ED 20020515
 TITLE (ENGLISH): COMPOSITIONS COMPRISING ANTI-MICROTUBULE AGENTS FOR
 TREATING OR PREVENTING INFLAMMATORY DISEASES
 TITLE (FRENCH): COMPOSITIONS RENFERMANT DES AGENTS ANTI-MICROTUBULES
 POUR LE TRAITEMENT OU LA PREVENTION DE MALADIES
 INFLAMMATOIRES

INVENTOR(S): HUNTER, William, L.
 PATENT ASSIGNEE(S): ANGIOTECH PHARMACEUTICALS, INC.;

LANGUAGE OF PUBL.: HUNTER, William, L.
DOCUMENT TYPE: English
PATENT INFORMATION: Patent

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 9962510	A2	19991209
W:	AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG		
APPLICATION INFO.:	WO 1999-CA464	A	19990601
PRIORITY INFO.:	US 1998-09/088,546		19980601

L22 ANSWER 6 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 1999055343 PCTFULL ED 20020515
TITLE (ENGLISH): CNRE BINDING FACTORS AND USES THEREOF
TITLE (FRENCH): FACTEURS DE LIAISON CNRE ET UTILISATIONS
CORRESPONDANTES
INVENTOR(S): CHEN, Yuqing, E.;
HORIUCHI, Masatsugu;
DZAU, Victor, J.;
TAMURA, Koichi
PATENT ASSIGNEE(S): THE BRIGHAM AND WOMEN'S HOSPITAL, INC.;
CHEN, Yuqing, E.;
HORIUCHI, Masatsugu;
DZAU, Victor, J.;
TAMURA, Koichi

LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 9955343	A1	19991104
W:	CA JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE		
APPLICATION INFO.:	WO 1999-US8502	A	19990423
PRIORITY INFO.:	US 1998-60/082,997		19980424

L22 ANSWER 7 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 1999004817 PCTFULL ED 20020515
TITLE (ENGLISH): CHEMOTHERAPY SYNERGISTIC AGENT
TITLE (FRENCH): AGENT SYNERGIQUE POUR CHIMIOOTHERAPIE
INVENTOR(S): WINKELMAN, James, W.;
BRIDGES, Kenneth, R.
PATENT ASSIGNEE(S): BRIGHAM & WOMEN'S HOSPITAL, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 9904817	A1	19990204
W:	AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE		
APPLICATION INFO.:	WO 1998-US15052	A	19980722
PRIORITY INFO.:	US 1997-60/053,696		19970725
	US 1997-60/054,148		19970725

L22 ANSWER 8 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

ACCESSION NUMBER: 1998035554 PCTFULL ED 20020514.
 TITLE (ENGLISH): COMBINED TUMOR SUPPRESSOR GENE THERAPY AND CHEMOTHERAPY
 IN THE TREATMENT OF NEOPLASMS
 TITLE (FRENCH): COMBINAISON THERAPIE GENIQUE SUPPRESSIVE DE TUMEURS -
 CHIMIOOTHERAPIE UTILISEE DANS LE TRAITEMENT DE
 NEOPLASMES
 INVENTOR(S): NIELSEN, Loretta;
 HOROWITZ, Jo, Ann;
 MANEVAL, Daniel, C.;
 DEMERS, G., William;
 RYBAK, Mary, Ellen;
 RESNICK, Gene
 PATENT ASSIGNEE(S): CANJI, INC.;
 NIELSEN, Loretta;
 HOROWITZ, Jo, Ann;
 MANEVAL, Daniel, C.;
 DEMERS, G., William;
 RYBAK, Mary, Ellen;
 RESNICK, Gene
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 9835554	A2	19980820
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DESIGNATED STATES

W:

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
 ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
 GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT
 BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ
 CF CG CI CM GA GN ML MR NE SN TD TG

APPLICATION INFO.:

PRIORITY INFO.:

WO 1998-US3514	A	19980217
US 1997-8/801,285		19970218
US 1997-8/801,681		19970218
US 1997-8/801,755		19970218
US 1997-8/801,765		19970218
US 1997-60/038,065		19970218
US 1997-60/047,834		19970528

=> d kwic 5, 7

L22 ANSWER 5 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

DETD . . . subtilisin, 1069C85, steganacin, combretastatin, curacin,
 estradiol,
 2-methoxyestradiol, flavanol, rotenone, griseofulvin, vinca alkaloids,
 including
 vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin,
 phornopsin A,
 ustiloxins, dolastatin 10, dolastatin 15,
 halichondrins and halistatins, spongistatins,
 cryptophycins, rhazinilam. betaine. taurine, isethionate, HO-221,
 adociasulfate-2,
 estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly
 promoting
 protein (taxol-like protein, TALP),. . .
 .
 phomopsin A (Hamel, Med. Res. Rev. 16(2): 207-23) 1, 1996), ustiloxins
 (Hamel, Med Res. Rev. 16(2): 207-23) 1, 1996), dolastatin I 0
 (Hamel, Med. Res. Rev.

16(2): 207-23) 1, 1996). dolastatin 15 (Hamel. Med Res. Rev.

16(2): 207-23) 1, 1996),
halichondrins and halistatins (Hamel, Med. Res. Rev. 16(2): 207-231,
1996),
spongistatins (Hamel, . . .

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rotenone, griseofulvin, vinca alkaloids, including vinblastine and
vincristine,
maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins,
dolastatin 10,
dolastatin 15, halichondrins and halistatins, spongistatins.
cryptophycins, rhazinilam,
betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine.
monoclonal anti-
idiotypic antibodies, microtubule assembly promoting protein
(taxol-like. . .

subtilisin,
1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol,
rotenone, griseofulvin, vinca alkaloids, including vinblastine and
vincristine,
maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins,
dolastatin I 0,
dolastatin 15, halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam,
betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine.
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idiotypic antibodies, microtubule assembly promoting protein
(taxol-like. . .

subtilisin,
1069C85, steganacin, combretastatin, curacin, estradiol,
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maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins,
dolastatin 10,
dolastatin 15, halichondrins and halistatins, spongistatins,
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betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine,
monoclonal anti-
idiotypic antibodies, microtubule assembly promoting protein
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dolastatin 10.

dolastatin 15, halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam,
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idiotypic antibodies, microtubule assembly promoting protein
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subtilisin, 1069C85, steganacin,
combretastatin, curacin, estradiol, 2-methoxyestradiol, flavanol,
rotenone, griseofulvin,

vinca alkaloids. including vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin, phomopsin A. ustiloxins, dolastatin 10. dolastatin 15, halichondrins and halistatins, spongistatins, cryptophycins, rhazinilam, betaine, taurine. isethionate, HO-221, adociasulfate-2, estramustine. monoclonal anti-idiotypic antibodies. microtubule assembly promoting protein (taxol-like protein, . . .

maytansinoids and ansamitocins, rhizoxin. phomopsin A, ustiloxins, dolastatin I 0, dolastatin 15, halichondrins and halistatins, spongistatins, cryptophycins. rhazinilam, betaine, taurine, isethionate, HO-22 1, adociasulfate-2, estraniustine, monoclonal anti-idiotypic antibodies, microtubule assembly promoting protein. . .

subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol, 2-methoxyestradiol. flavanol, rotenone, griseofulvin. vinca alkaloids. including vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins. dolastatin 10.

dolastatin 15, halichondrins and halistatins, spongistatins, cryptophycins, rhazinilam, betaine. taurine. isethionate, HO-221, adociasulfate-2, estramustine, microtubule assembly promoting protein (taxol-like protein, TALP), cell swelling. .

subtilisin, 1069C85. steganacin, combretastatin, curacin. estradiol, 2-methoxyestradiol. flavanol, rotenone, griseofulvin, vinca alkaloids, including vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin, phomopsin A, ustiloxins, dolastatin I 0, dolastatin 15, halichondrins and halistatins, sponcristatins, cryptophycins, rhazinilam, betaine, taurine, isethionate, HO-221, adociasulfate-2, estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly promoting protein (taxol-like. . .

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dolastatin 15, halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam,
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microtubule
assembly promoting protein (taxol-like protein, TALP), cell swelling. .

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phomopsin A,
ustiloxins, dolastatin 10, dolastatin 15,
halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam, betaine, taurine, isethionate, HO-221,
adociasulfate-2,
estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly
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protein (taxol-like protein, TALP),. . .

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phomopsin A,
ustiloxins, dolastatin 10, dolastatin 15,
halichondrins and halistatins, spongistatins,
cryptophycins, rhazinilam, betaine, taurine, isethionate. HO-221,
adociasulfate
estramustine, monoclonal anti-idiotypic antibodies, microtubule assembly
promoting
protein (taxol-like protein.. . .

.
subtilisin, 1069C85, steganacin, combretastatin, curacin, estradiol,
2-methoxyestradiol, flavanol, rotenone, griseofulvin, vinca alkaloids,
including
vinblastine and vincristine, maytansinoids and ansamitocins, rhizoxin,
phomopsin A,
ustiloxins, dolastatin 10, dolastatin 15,
halichondrins and halistatins. spongistatins.

.
endpoints: (1) inhibition of
the white blood cell response (macrophages, neutrophils and T cells)
which initiates the
inflammatory cascade; (2) inhibition of mesenchymal cell
(fibroblasts, synoviocytes,
etc.) hyperproliferation that leads to the development of fibrosis and
loss of organ
function; (3) inhibition of matrix metalloproteinase. . .

L22 ANSWER 7 OF 8 PCTFULL COPYRIGHT 2006 Univentio on STN

DÉTD . . . 91)

-
lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
cell carcinoma;
ovarian cancer, including those arising from epithelial cells, stromal
cells, germ cells and
mesenchymal cells; pancreas cancer; prostate cancer; rectal
cancer; sarcomas, including
leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
osteosarcoma; skin

cancer, including melanoma, Kaposi's sarcoma, basal. . . .
 peptides; insulin-like
 growth factor-I receptor inhibitor; interferon agonists; interferons;
 interleukins; iobenguane;
 I 0 iododoxorubicin; ipomeanol, 4-; irinotecan; iroplact; irsogladine;
 isobengazole;
 isohomohalicondrin B; itasetron; jasplakinolide; kahalalide F;
 larnellarin-N triacetate;
 lanreotide; leinamycin; lenograstim; lentinan sulfate; leptolstatin;
 letrozole; leukemia
 inhibiting factor; leukocyte alpha interferon; leuprolide + estrogen +
 progesterone;
 leuprorelin;. . .

CLMEN. . . and
 lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
 cell carcinoma;
 ovarian cancer, including those arising from epithelial cells, stromal
 cells, germ cells and
 mesenchymal cells; pancreas cancer; prostate cancer; rectal
 cancer; sarcomas, including
 leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
 osteosarcoma; skin
 cancer, including melanoma, Kaposi's sarcoma, basocellular. . . .
 and
 lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
 cell carcinoma;
 ovarian cancer, including those arising from epithelial cells, stromal
 cells, germ cells and
 mesenchymal cells; pancreas cancer; prostate cancer; rectal
 cancer; sarcomas, including
 leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
 osteosarcoma; skin
 - 24 -
 cancer, including melanoma, Kaposi's. . . .
 and
 lymphocytic lymphomas; neuroblastomas; oral cancer, including squamous
 cell carcinoma;
 ovarian cancer, including those arising from epithelial cells, stromal
 cells, germ cells and
 mesenchymal cells; pancreas cancer; prostate cancer'; rectal
 cancer; sarcomas, including
 leiomyosarcoma, rhabdomyosarcoma, liposarcoma, fibrosarcoma and
 osteosarcoma; skin
 cancer, including melanoma, Kaposi's sarcoma, basocellular. . . .

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NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAPLUS F-Term thesaurus enhanced
NEWS 7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 8	NOV 20	CA/CAPLUS to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAPLUS patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAPLUS updated with revised CAS roles
NEWS 23	JAN 22	CA/CAPLUS enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26	FEB 13	CASREACT coverage to be extended
NEWS 27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 28	Feb 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 29	Feb 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 30	Feb 26	MEDLINE reloaded with enhancements
NEWS 31	Feb 26	EMBASE enhanced with Clinical Trial Number field
NEWS 32	Feb 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 33	Feb 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 34	Feb 26	CAS Registry Number crossover limit increased from 10,000

to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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=> s ESP-2 or HED-2 or Zyxin or Zyxin-2
511000 ESP
263 ESPS
511131 ESP
(ESP OR ESPS)
9071127 2
958 ESP-2
(ESP(W)2)
397 HED
35 HEDS
428 HED
(HED OR HEDS)

9071127 2
 5 HED-2
 (HED(W)2)
 249 ZYXIN
 28 ZYXINS
 254 ZYXIN
 (ZYXIN OR ZYXINS)
 249 ZYXIN
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 254 ZYXIN
 (ZYXIN OR ZYXINS)

9071127 2
 6 ZYXIN-2
 (ZYXIN(W)2)

L1 1213 ESP-2 OR HED-2 OR ZYXIN OR ZYXIN-2

=> s cancer? or tumor? or neoplas?

323384 CANCER?
 460516 TUMOR?
 483669 NEOPLAS?

L2 763127 CANCER? OR TUMOR? OR NEOPLAS?

=> s l1 (L) l2

L3 73 L1 (L) L2

=> s therap? or treat? or inhibit? or suppres?

509077 THERAP?
 3519011 TREAT?
 1906473 INHIBIT?
 411937 SUPPRES?

L4 5345131 THERAP? OR TREAT? OR INHIBIT? OR SUPPRES?

75% OF LIMIT FOR TOTAL ANSWERS REACHED

=> s l4 and l3

L5 55 L4 AND L3

=> s l5 not py>2000

6894468 PY>2000

L6 14 L5 NOT PY>2000

=> d ibib abs 1-7

L6 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:738475 CAPLUS

DOCUMENT NUMBER: 134:220517

TITLE: Alterations in the gene expression profile of MCF-7 breast tumor cells in response to c-Jun

AUTHOR(S): Rinehart-Kim, Janet; Johnston, Melissa; Birrer, Michael; Bos, Timothy

CORPORATE SOURCE: Department of Microbiology and Molecular Cell Biology, Eastern Virginia Medical School, Norfolk, VA, USA

SOURCE: International Journal of Cancer (2000), 88(2), 180-190
 CODEN: IJCNW; ISSN: 0020-7136

PUBLISHER: Wiley-Liss, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB MCF7 breast tumor cells overexpressing human c-Jun exhibit a transformed phenotype characterized not only by increased tumorigenicity but also by enhanced motility and invasion. The cellular phenotypic response to c-Jun overexpression is likely due, at least in part, to altered patterns of gene expression. In order to begin to understand the complexities by which elevated production of c-Jun alters the state of the cell, the authors have profiled the expression of 588 different genes by comparative hybridization. By using this approach, the authors have identified a total of 21 upregulated or downregulated gene targets responsive to c-Jun

overexpression. Interestingly, 8 of these genes have been previously found associated with c-Jun or AP-1 activity and therefore provide internal validation for this approach to target gene discovery. The remaining 13 genes represent potential new c-Jun regulated target genes. Genomic sequence information was available for 15 of the 21 genes identified in this screen. Anal. of these genomic sequences revealed the presence of AP-1 or AP-1-like sequences in 12 of the 15 genes examined. Consistent with a direct mechanism of target regulation by c-Jun, gel shift anal. of selected AP-1-containing promoter regions revealed elevated and specific binding by proteins present in nuclear exts. of c-Jun expressing MCF7 cells.

REFERENCE COUNT: 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:734436 CAPLUS

DOCUMENT NUMBER: 134:14198

TITLE: Differential display analysis of fiber-induced carcinogenesis in rat: clue for involvement of integrin-mediated signal transduction

AUTHOR(S): Sandhu, H.; Olbruck, H.; Abel, J.; Unfried, K.

CORPORATE SOURCE: Department of Experimental Toxicology, Medical Institute of Environmental Hygiene at the Heinrich Heine University, Dusseldorf, 40225, Germany

SOURCE: Inhalation Toxicology (2000), 12(Suppl. 3), 337-343
CODEN: INHTE5; ISSN: 0895-8378

PUBLISHER: Taylor & Francis

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In this study, mRNA expression patterns during mesothelioma carcinogenesis in the peritoneal cavity were investigated. To this purpose, the mRNA expression patterns of fiber-induced mesothelioma and of fiber-treated tissues were compared to untreated tissues, resp. Suppression subtractive hybridization (SSH) and an array hybridization assay were used to perform differential display analyses. Genes found to be expressed differentially mainly represent proteins of signal transduction pathways and regulatory proteins of the cell cycle. The genes for components of the AP-1 transcription factor, c-jun, c-fos, and fra-1 (fos-related antigen-1) are upregulated in nontumorous tissue treated with asbestos. These data confirm in vivo the involvement of AP-1 expression as response to fiber treatment. In addition, osteopontin, zyxin, and integrin-linked kinase were upregulated in tumors and in treated tissues. These genes code for proteins involved in the signal transduction from the extracellular matrix to the nucleus. Using integrin-specific inhibitors, the apoptotic effects of crocidolite fibers could be suppressed significantly. From these results the authors hypothesize that direct effects of the fibers on the target tissue are mediated by interaction of the fibers with the extracellular matrix mols.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:727041 CAPLUS

DOCUMENT NUMBER: 134:81

TITLE: Preparation of novel specific aminopeptidase inhibitors with a cyclic imide skeleton

AUTHOR(S): Takahashi, Hiroyasu; Komoda, Masato; Katsuta, Hiroki; Hashimoto, Yuichi

CORPORATE SOURCE: Institute of Molecular and Cellular Bioscience, University of Tokyo, Tokyo, 113-0032, Japan

SOURCE: Yakugaku Zasshi (2000), 120(10), 909-922
CODEN: YKKZAJ; ISSN: 0031-6903

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

AB A review with 25 refs. The studies on both structure-activity relationship study and identification of the target enzyme of novel nonpeptide aminopeptidase inhibitors with cyclic imide skeleton are reviewed. Some N-phenylphthalimide or N-phenylhomophthalimide derivative showed potent protease inhibitory activity in an assay system using human acute lymphoblastic leukemia cells, Molt-4, with alanine-4-methylcoumaryl-7-amide (ala-AMC) as a substrate. Esp., 2-(2,6-diethylphenyl)-1,2,3,4-tetrahydroisoquinoline-1,3-dione (PIQ-22) (3) was found to be the most potent inhibitor and further it showed potent tumor-cell invasion inhibitory activity that is more effective than potent peptide aminopeptidase inhibitors such as bestatin (1) or actinonin (2). For the further investigation of this novel protease inhibitory activity, we have carried out the structural development of PIQ-22 (3) and it is assumed that tautomerism of imidobenzoylketone in cyclic imide structure may be related to the inhibitory activity. The requirement for the activity of electron donating groups such as NH₂ or OH to the condensed Ph ring in phthalimide inhibitors also supports this possibility. The target aminopeptidase of PIQ-22 was identified as puromycin-sensitive aminopeptidase (PSA), by N-terminal amino acid sequencing, and by comparison with chromatog. behavior and substrate-selectivity, and so on. Lineweaver-Burk plot showed that PSA is inhibited by PIQ-22 (3) in a noncompetitive manner while puromycin (83) and bestatin (1) inhibit PSA competitively.

L6 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:393023 CAPLUS

DOCUMENT NUMBER: 133:117982

TITLE: Zyxin, a regulator of actin filament assembly, targets the mitotic apparatus by interacting with h-warts/LATS1 tumor suppressor

AUTHOR(S): Hirota, Toru; Morisaki, Tetsuro; Nishiyama, Yasuyuki; Marumoto, Tomotoshi; Tada, Kenji; Hara, Toshihiro; Masuko, Norio; Inagaki, Masaki; Hatakeyama, Katsuyoshi; Saya, Hideyuki

CORPORATE SOURCE: Department of Tumor Genetics and Biology, Kumamoto University School of Medicine, Kumamoto, 860-0811, Japan

SOURCE: Journal of Cell Biology (2000), 149(5), 1073-1086
CODEN: JCLBA3; ISSN: 0021-9525

PUBLISHER: Rockefeller University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mitotic apparatus plays a pivotal role in dividing cells to ensure each daughter cell receives a full set of chromosomes and complement of cytoplasm during mitosis. A human homolog of the Drosophila warts tumor suppressor, h-warts/LATS1, is an evolutionarily conserved serine/threonine kinase and a dynamic component of the mitotic apparatus. We have identified an interaction of h-warts/LATS1 with zyxin, a regulator of actin filament assembly. Zyxin is a component of focal adhesion; however, during mitosis, a fraction of cytoplasmic-dispersed zyxin becomes associated with h-warts/LATS1 on the mitotic apparatus. We found that zyxin is phosphorylated specifically during mitosis, most likely by Cdc2 kinase, and that the phosphorylation regulates association with h-warts/LATS1. Furthermore, microinjection of truncated h-warts/LATS1 protein, including the zyxin-binding portion, interfered with localization of zyxin to mitotic apparatus, and the duration of mitosis of these injected cells was significantly longer than that of control cells. These findings suggest that h-warts/LATS1 and zyxin play a crucial role in controlling mitosis progression by forming a regulatory complex on mitotic apparatus.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:358265 CAPLUS
DOCUMENT NUMBER: 133:100802
TITLE: mRNA expression patterns in different stages of
asbestos-induced carcinogenesis in rats
AUTHOR(S): Sandhu, H.; Dehnen, W.; Roller, M.; Abel, J.; Unfried,
K.
CORPORATE SOURCE: Department of Experimental Toxicology, Medical
Institute of Environmental Hygiene at the Heinrich
Heine University, Dusseldorf, 40225, Germany
SOURCE: Carcinogenesis (2000), 21(5), 1023-1029
CODEN: CRNGDP; ISSN: 0143-3334
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Human malignant mesotheliomas are induced almost exclusively by fibrous
dusts. The nature of interactions between fibers and target cells, and
the mol. mechanisms leading to tumorigenesis, are not yet
understood. Here, the mRNA expression patterns at different stages of
asbestos-induced carcinogenesis in rats were monitored by
suppression subtractive hybridization (SSH) and array assay.
Several genes were upregulated in pre-tumorous tissues from
asbestos-treated rats, in asbestos-induced tumors, and
in cells treated with asbestos in vitro. The upregulation of
the proto-oncogene c-myc, fra-1, and egfr in fiber-induced carcinogenesis
was demonstrated at different stages of carcinogenesis. A possible role
of Fra-1 as one of the dimeric proteins generating the AP-1 transcription
factor was substantiated by its dose-dependent expression in mesothelial
cells treated with asbestos in vitro. The upregulation of
osteopontin (an extracellular matrix protein) and of zyxin and
integrin-linked kinase (intracellular proteins associated with the focal
adhesion contact) indicate that fibers may affect integrin-linked signal
transduction and extracellular matrix proteins.

REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:85800 CAPLUS
DOCUMENT NUMBER: 132:234686
TITLE: LPP, an actin cytoskeleton protein related to zyxin,
harbors a nuclear export signal and transcriptional
activation capacity
AUTHOR(S): Petit, Marleen M. R.; Fradelizi, Julie; Golsteyn, Roy
M.; Ayoubi, Torik A. Y.; Menichi, Bernadette; Louvard,
Daniel; Van de Ven, Wim J. M.; Friederich, Evelyne
CORPORATE SOURCE: Laboratory for Molecular Oncology, Center for Human
Genetics, University of Leuven and Flanders
Interuniversity Institute for Biotechnology, Louvain,
B-3000, Belg.
SOURCE: Molecular Biology of the Cell (2000), 11(1), 117-129
CODEN: MBCEEV; ISSN: 1059-1524
PUBLISHER: American Society for Cell Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The LPP gene is the preferred translocation partner of the HMGIC gene in a
subclass of human benign mesenchymal tumors known as lipomas.
Here we have characterized the LPP gene product that shares 41% of
sequence identity with the focal adhesion protein zyxin. LPP
localizes in focal adhesions as well as in cell-to-cell contacts, and it
binds VASP, a protein implicated in the control of actin organization. In
addition, LPP accumulates in the nucleus of cells upon treatment
with leptomycin B, an inhibitor of the export factor CRM1. The
nuclear export of LPP depends on an N-terminally located leucine-rich
sequence that shares sequence homol. with well-defined nuclear export

signals. Moreover, LPP displays transcriptional activation capacity, as measured by GAL4-based assays. Altogether, these results show that the LPP protein has multifunctional domains and may serve as a scaffold upon which distinct protein complexes are assembled in the cytoplasm and in the nucleus.

REFERENCE COUNT: 69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:331285 CAPLUS
DOCUMENT NUMBER: 129:77980
TITLE: The focal adhesion phosphoprotein, VASP
AUTHOR(S): Holt, Mark R.; Critchley, David R.; Brindle, Nicholas P. J.
CORPORATE SOURCE: Department of Biochemistry, University of Leicester, Leicester, LE1 7RH, UK
SOURCE: International Journal of Biochemistry & Cell Biology (1998), 30(3), 307-311
CODEN: IJBBFU; ISSN: 1357-2725
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

AB A review with 14 refs. Vasodilator-stimulated phosphoprotein (VASP) is associated with focal adhesions and areas of dynamic membrane activity, where it is thought to have an important role in actin filament assembly and cell motility. VASP contains a central proline-rich sequence which recruits the G-actin binding protein profilin. Localization of VASP to the leading edge of a migrating cell can lead to local accumulation of profilin, which in turn can supply actin monomers to growing filament ends. VASP binds to the focal adhesion proteins vinculin and zyxin and this probably directs the phosphoprotein to focal adhesions and the leading edge of stimulated cells. VASP functions as a binding intermediate between profilin and focal adhesion proteins. Intracellular pathogens, including *Listeria monocytogenes*, have coat proteins which bind VASP. This is one way in which these pathogens use VASP, and other proteins from the host cell, to assemble the actin filaments they require to move around the cytoplasm of infected cells and enter neighboring cells. Understanding the role of VASP and other proteins in cell and bacterial motility is likely to lead to development of new therapeutic strategies for diseases including atherosclerosis and tumor growth, and for limiting the spread of intracellular pathogens.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs 8-14

L6 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:168956 CAPLUS
DOCUMENT NUMBER: 128:281277
TITLE: Down-regulated proteins of mesenchymal tumor cells
AUTHOR(S): Schenker, Thomas; Trueb, Beat
CORPORATE SOURCE: MEM-Institute, Division of Biology, University of Bern, Bern, CH-3010, Switz.
SOURCE: Experimental Cell Research (1998), 239(1), 161-168
CODEN: ECREAL; ISSN: 0014-4827
PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To identify proteins that are lost during the establishment of the transformed phenotype of a tumor cell, the authors have prepared a subtracted cDNA library with mRNA from normal human fibroblasts and from their matched SV40 transformed counterparts. More than 40 clones were obtained that showed a dramatic reduction in their relative expression after

oncogenic transformation. The proteins encoded by these clones could be grouped into four distinct classes: extracellular matrix proteins (fibronectin, β ig-h3, collagen VI), enzymes (collagenase, urokinase), cytoskeletal proteins (vinculin, SM22) and regulatory proteins (β -glycan, integrin-associated protein, myosin kinase, IGFBP-5). Six novel gene products were discovered during these expts., including a novel serine protease, a zyxin-like protein, an ankyrin-like protein, and a GTP-binding protein. Only four of all the transformation-sensitive cDNAs were consistently down-regulated when a variety of cell lines derived from spontaneous mesenchymal tumors was investigated: β ig-h3, collagen VI, the novel ankyrin-like protein, and IGFBP-5. It is likely that these gene products play an important role in the maintenance of the normal phenotype.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:124880 CAPLUS

DOCUMENT NUMBER: 118:124880

TITLE: Steroid derivatives with 2-propynyloxy group in position 3, useful as intermediates for radiotherapeutics, and method of their preparation
INVENTOR(S): Pouzar, Vladimir; Schneiderova, Lenka; Drasar, Pavel; Strouf, Oldrich; Havel, Miroslav

PATENT ASSIGNEE(S): Czech.

SOURCE: Czech., 6 pp.

CODEN: CZXXA9

DOCUMENT TYPE: Patent

LANGUAGE: Czech

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 267444	B1	19900212	CS 1988-5354	19880728
PRIORITY APPLN. INFO.:			CS 1988-5354	19880728

OTHER SOURCE(S): MARPAT 118:124880

AB Steroids HC.tplbond.CCH2OR [I; R = 5-cholesten-3 β -yl, 20-oxo-5-pregnen-3 β -yl, 17-oxo-5-androsten-3 β -yl, 17 β -methoxymethoxy-5-androsten-3 β -yl] were prepared as intermediates for steroidal [10B]-dicarbadodecaborane derivs., used for neutron-capture therapy of hormone-dependent tumors. I were prepared in 6-32% yield by reaction of corresponding alcs. ROH with 1-5 mol equiv HC.tplbond.CCH2Br in an organic solvent (especially 2:1 C₆H₆/MeCN), in the presence of a quaternary ammonium salt such as Bu₄NHSO₄ [mol ratio 1:(1-4) vs. ROH] and aqueous 10-19M NaOH at 10-70°.

L6 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:124878 CAPLUS

DOCUMENT NUMBER: 118:124878

TITLE: Steroid derivatives with 2-propynyloxy group in position 20, useful as intermediates for radiotherapeutics, and method of their preparation
INVENTOR(S): Pouzar, Vladimir; Schneiderova, Lenka; Drasar, Pavel; Strouf, Oldrich; Havel, Miroslav

PATENT ASSIGNEE(S): Czech.

SOURCE: Czech., 5 pp.

CODEN: CZXXA9

DOCUMENT TYPE: Patent

LANGUAGE: Czech

FAMILY ACC. NUM. COUNT: 1

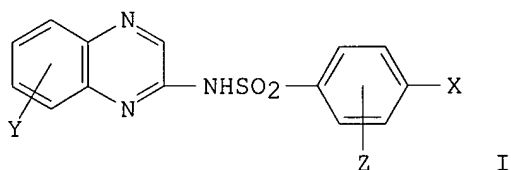
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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L6 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:169038 CAPLUS
 DOCUMENT NUMBER: 106:169038
 TITLE: Quinoxaline derivatives as neoplasm inhibitors
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62000426	A	19870106	JP 1986-146277	19860624
EP 215200	A2	19870325	EP 1986-108295	19860618
EP 215200	A3	19890802		
EP 215200	B1	19920909		
R: CH, DE, FR, GB, IT, LI, NL				
CA 1267604	A1	19900410	CA 1986-511938	19860619
US 4931433	A	19900605	US 1987-45256	19870501
PRIORITY APPLN. INFO.:			US 1985-748070	A 19850624
			US 1986-858092	B1 19860429
OTHER SOURCE(S):	MARPAT 106:169038			
GI				



AB Quinoxaline derivs. I (Y = NO₂, OMe, H, Cl, Br, OH; X = NO₂, NH₂, acylamido, NH(CH₂)_nCOOH, NHCH₂SO₃H; Z = H or halo), especially 2-sulfonfylamino-5-chloroquinoxaline (II), are neoplasm inhibitors as determined by the Sheamaker method (1985). In vivo, II (200-449 mg/kg/day) prolonged the life span of mice transplanted with human LOX melanin-deficient melanocarcinoma.

L6 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:405881 CAPLUS
 DOCUMENT NUMBER: 99:5881
 TITLE: Isoprenylamine derivatives and their acid addition salts
 INVENTOR(S): Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; Takahashi, Toshihiro
 PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan
 SOURCE: Ger. Offen., 27 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3218822	A1	19821202	DE 1982-3218822	19820518
DE 3218822	C2	19901018		
JP 57192340	A	19821126	JP 1981-76155	19810518

JP 01028736	B	19890605		
US 4568765	A	19860204	US 1982-377577	19820512
GB 2098613	A	19821124	GB 1982-14242	19820517
GB 2098613	B	19850109		
FR 2505824	A1	19821119	FR 1982-8704	19820518
FR 2505824	B1	19860425		

PRIORITY APPLN. INFO.: JP 1981-76155 A 19810518

OTHER SOURCE(S): CASREACT 99:5881; MARPAT 99:5881

AB $H(CH_2CRMeCHR_1CH_2)_n[NR_2(CH_2)_p]qNHR_2$ ($n = 2-10$; $p = 2$ or 3 ; $q \geq 2$, especially 2 or 3; $R, R_1 = H, H$ or bond; $R_2 = H, Bz, PhCH_2$ or lower alkyl or acyl) were prepared. Thus decaprenyl bromide reacted with triethylenetetramine to give, via the tetrakis(trifluoroacetyl) derivative, $H(CH_2CMe:CHCH_2)_{10}(NHCH_2CH_2)_3NH_2$, which provided 87.9% protection against Vaccinia infections and gave increased survival times in 5/6 of cases against KN7-8 tumor cells in mice.

=> file dissab

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=> s ESP-2 or HED-2 or Zyxin or Zyxin-2

381 ESP

19 ESPS

388 ESP

(ESP OR ESPS)

380284 2

2 ESP-2

(ESP(W)2)

32 HED

2 HEDS

33 HED

(HED OR HEDS)

380284 2

0 HED-2

(HED(W)2)

10 ZYXIN

10 ZYXIN

380284 2

0 ZYXIN-2

(ZYXIN(W)2)

L7 12 ESP-2 OR HED-2 OR ZYXIN OR ZYXIN-2

=> s cancer? or tumor? or neoplas?

17132 CANCER?

14172 TUMOR?

2482 NEOPLAS?
L8 27419 CANCER? OR TUMOR? OR NEOPLAS?

=> s 17 and 18

L9 2 L7 AND L8

=> d ibib 1-2

L9 ANSWER 1 OF 2 DISSABS COPYRIGHT (C) 2007 ProQuest Information and Learning Company; All Rights Reserved on STN
ACCESSION NUMBER: 2001:26596 DISSABS Order Number: AAI9988630
TITLE: Characterization of TRIP6, a new zyxin family member
AUTHOR: Yi, Jinseong [Ph.D.]; Beckerle, Mary C. [adviser]
CORPORATE SOURCE: The University of Utah (0240)
SOURCE: Dissertation Abstracts International, (2000) Vol. 61, No. 9B, p. 4521. Order No.: AAI9988630. 160 pages.
ISBN: 0-599-95237-7.
DOCUMENT TYPE: Dissertation
FILE SEGMENT: DAI
LANGUAGE: English

L9 ANSWER 2 OF 2 DISSABS COPYRIGHT (C) 2007 ProQuest Information and Learning Company; All Rights Reserved on STN
ACCESSION NUMBER: 2000:35209 DISSABS Order Number: AAI9956453
TITLE: Regulation of the cytoskeleton in human microvascular endothelial cells
AUTHOR: Zimmerman, Matthew John [Ph.D.]; Feramisco, James R. [adviser]
CORPORATE SOURCE: University of California, San Diego (0033)
SOURCE: Dissertation Abstracts International, (2000) Vol. 61, No. 1B, p. 52. Order No.: AAI9956453. 139 pages.
DOCUMENT TYPE: Dissertation
FILE SEGMENT: DAI
LANGUAGE: English

=> s therap? or treat? or inhibit? or suppres?

38515 THERAP?

163294 TREAT?

67152 INHIBIT?

23440 SUPPRES?

L10 248978 THERAP? OR TREAT? OR INHIBIT? OR SUPPRES?

=> s 19 and 110

L11 1 L9 AND L10

=> d ibib abs kwic

L11 ANSWER 1 OF 1 DISSABS COPYRIGHT (C) 2007 ProQuest Information and Learning Company; All Rights Reserved on STN
ACCESSION NUMBER: 2000:35209 DISSABS Order Number: AAI9956453
TITLE: Regulation of the cytoskeleton in human microvascular endothelial cells
AUTHOR: Zimmerman, Matthew John [Ph.D.]; Feramisco, James R. [adviser]
CORPORATE SOURCE: University of California, San Diego (0033)
SOURCE: Dissertation Abstracts International, (2000) Vol. 61, No. 1B, p. 52. Order No.: AAI9956453. 139 pages.
DOCUMENT TYPE: Dissertation
FILE SEGMENT: DAI
LANGUAGE: English

AB Angiogenesis is required for the growth of solid tumors.
VEGF, by virtue of an expression pattern of receptors restricted mainly to the endothelium, is a critical regulator of angiogenesis in vivo.

Representational difference analysis was utilized to clone genes that were upregulated in endothelial cells 2 hours after treatment with VEGF. Two genes, fra-1 and TR3, both themselves regulators of transcription, were found to be upregulated 3.1 and 1.4 fold respectively. A third gene product, zyxin, was found to localize with focal adhesions and stress fibers after

VEGF treatment, in contrast to the effects of another angiogenic factor, 12-tetradecanoylphorbol 13-acetate (TPA), which caused loss of zyxin localization to these structures. Loss of zyxin at stress fibers and focal adhesions over time and dose of TPA treatment correlated with a reduced electrophoretic mobility of zyxin on polyacrylamide gels which was determined to be due to phosphorylation of the protein. Both effects were blocked by inhibition of PKC activity. Inhibition of MEK activity, however, inhibited zyxin phosphorylation downstream of TPA treatment, but not loss of zyxin at focal adhesions and stress fibers, indicating that zyxin phosphorylation could be decoupled from the cytoskeletal rearrangements induced by TPA. Introduction of inactivated cdc42 into HMvECs paralleled the effect of VEGF increased localization of zyxin to actin stress fibers and focal adhesions, an effect which may be mediated by the inactivation of the downstream effector PAK. Inactivation of PAK alone and in combination with activated cdc42 increased stress fiber formation in HMvECs, supporting the hypothesis that PAK mediates stress fiber breakdown. However, PAK inactivation is also predicted to inhibit LIM-kinase, and inhibition of LIM-kinase by independent means inhibited, not cooperated with, the phenotype induced by activated cdc42. These apparently contradictory results may be explained by alternate emerging regulatory pathways.

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